Student and Professional Understandability of Software Design Methodologies

by

PAULA V. DANIELS

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Major Professor

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- INTRODUCTION -

There are many software design methodologies and every designer claims their methodology is the best, i.e. easiest to use or the easiest to understand. Yet with all of these methods there seems to be no general agreement as to which is best. There exists a need to investigate these software design methods. One way of determining the best methodology is by the ease of use or understandability of the designs.

There has been research on the understandability of code and specifications but none on the understandability of specific design methods. Tom Love[6] has researched the program structure's effect on comprehension within code. The subjects were asked to reconstruct the code. Woodfield, Dunsmore, and Shen[11] have done research on the effect of modularization and comments on program understanding. In this study the participants were to answer questions about the accompanying code. Sheppard and Kruesi [9] had subjects modify and debug code based on the associated specifications. The specifications were represented in different symbologies and spatial arrangements. Sheppard, Kruesi and Curtis[10] again examined the symbology and spatial arrangement of specifications. Instead of having the participants perform a coding task, they answered questions about the specifications.

Although these are important areas of research, it becomes pointless to investigate the understandability of code if that code is derived from a faulty design. The purpose of this study is to examine the understandability of software design methods. The participants were asked to answer questions about system structure diagrams which were produced using four software design methods.

The initial design of a system is an important phase of the software life cycle. Most software engineers would agree that if the system's design is faulty then the code is also going to be incorrect. If the designer does not understand the design method that they are working with then it is highly unlikely that they will produce a correct system design.

The hypothesis for this work is that of the four design methods tested, one will be understood better than the other three. Understandability is measured by the speed and accuracy with which the subjects respond to the questions. The design method that is tested to be best understood by the professional test group may not be the same as the method that the student participants understood best. The null hypothesis will be that all four design methods have equal understandability for both test groups.

As mentioned above two independent groups, students and professionals, were tested for their understandability of the design methods. The groups were selected as being representative of the personnel who use software design methods in industry. The professionals represent programmers that might use these methods on a daily basis. The students represent future users, who do not have a working knowledge of them. In industry users may be managers or end-users, anyone who needs the system and its functions communicated to them.

The reason for testing two groups is that, in industry, the software design methods have two uses. First, it is used as an aid by the programmer represented by the professional test group, in constructing a system design. By using a well understood design method, the programmers will tend to produce correct system designs, cutting down on expensive modifications. Second, the design method is used to help the programmer communicate their system design and its functions to the user represented by the student test If the user does not understand the design method group. then they might either approve an incorrect system design or continually reject correct designs. If a software design method can be determined as being well understood by both test groups then it can serve the programmer as a design tool as well as being an effective communication tool.

In this research, understandability is measured by speed and accuracy. One important factor in designing software is to produce it as quickly as possible. It could be argued that anyone could understand any design method if given enough time. The design method is not of much use if it takes a long time to understand it. In the experiment, speed is measured by the time that it takes the subject to answer the questions. The most important factor, however, is to produce quality software. This is more important than speed because of the high cost of maintenance and debugging. Accurate software, taking much longer to produce, would be better than quickly produced faulty software. Accuracy is measured in this study by the number of correct answers.

- EXPERIMENT DESIGN -

DESIGN METHODOLOGIES

The software methodologies that were tested are: Higher Order Software (HOS), Jackson's structured design, Warnier-Orr, and Yourdon-Constantine. These are all diagram-orienced methodologies.

HIGHER ORDER SOFTWARE (HOS)

An HOS diagram is a decomposition tree, that is, a tree of boxes where each box can be decomposed or divided into more sub-boxes. There are two possible types of decomposition: composition and partition. Composition is an 'and' function. All of the sub-boxes are performed. They are executed from right to left. Partition is an 'or' function. This is indicated by conditions associated with the arcs coming out of the decomposed box. The conditions are shown in brackets {}. Only the one box for which the condition holds true is executed. In order for an HOS diagram to show iteration, a recursive call to a module at a higher level is performed [3],[4].

JACKSON (JACK)

The Jackson method is based on the structure of the inputs and the structure of the outputs. Each is described

in terms of a series of boxes. The structures are then combined to form the software structure of the whole system. There are three possible types of structures within a Jackson diagram: sequence, condition and repetition. A sequence is a box that contains no special symbol and has more than one box below it i.e. a sequence of boxes are executed. This sequence of boxes is performed from left to right.

A condition structure is designated by the 'O' symbol in the upper right corner of the box. The box is executed based on some condition. This can also be called a selection. One of the sub-trees is selected based on some condition.

A repetition structure is designated by the '*' symbol. This indicates iteration, the sub-tree below this box will be performed multiple times. This looping is continued until the end of some iteration condition. A structure may also be referred to as a module [8].

WARNIER-ORR (W-O)

A Warnier-Orr diagram structure is described using brace notation. Each brace has a name that labels the brace; the name appears to the left of the brace. To the right of the brace is a list of entries that comprise the body of the brace. Each entry can be further expanded with

another brace. The brace can be interpreted as a call to the body of the brace. A brace can also be referred to as a module.

A notation below a brace name or entry indicates the number of times that particular brace or entry will be performed. This notation can indicate repetition by '(1,n)?1', which means that it is executed 1 to n times. The '?1' is a footnote reference which gives the condition that ends the repetition. An exclusive or relationship is indicated by two notations. First, there will be a notation under each name or entry, that is to be ORed. This will be in the form of '(0,1)?2', it will be executed 0 or 1 times based on the condition referenced by '?2'. Second, there will be a '**6**' symbol between the names or entries that are to be ORed. One of the two or more modules will be executed based on the referenced conditions.

If an exclusive or relationship is not represented then an and relationship is assumed. These names or entries are executed from top to bottom [3], [5].

YOURDON-CONSTANTINE (Y-C)

The Yourdon-Constantine diagram is produced from a data flow diagram. The data flow diagram is transformed into a hierarchy diagram. The resulting hierarchy diagram represents the flow of the data through the system. Data is

indicated on the arcs, between the boxes, with an arrow showing the direction of flow.

The top box is called "MAIN". There are possibly three sections below the main, these are: afferent, efferent and transform sections. They can be thought of as input, butput and processing, respectively. Each can be represented as one box or many boxes.

The leftmost section is the afterent. These boxes can usually be identified by the term "GET". There is often one box for each major input. Users can be indicated by a box with a slash in the bottom right corner. A users box means that interaction with the user occurs here.

The middle section is the transform. These boxes perform the main action or processing within the system. One type of transform module can be identified by the term "CONTROLLER". Based on some data, it controls or selects which of the sub-modules should be performed.

The rightmost section, if it exists, is the efferent. These boxes can usually be identified by the term "PUT". There is often one box for each major output. Again, user boxes can be indicated here.

The three sections of afferent, transform and efterent can be continued recursively down the tree. That is, a

transform module can have below it an afferent, transform and efferent section. An afferent module below any module can be grouped with the afterent on the far left. Also an efferent module below any module can be grouped with the efferent on the far right.

The Yourdon-Constantine design method described here is the transformational type. There is also a transactional type of diagram that was not used in this study. For more information on the transactional type of Yourdon-Constantine diagram see "Structured Design: Fundamentals of a Discipline of Computer Program and Systems Design" [12].

DIAGRAM SYSTEMS

Each subject will be tested on all four methods; therefore, four different systems were needed. The systems that are being used are as follows: Savings Account Monthly Report System, Student Advisory System, Country Club system, and a Project Manager System.

SAVINGS ACCOUNT (SA)

The Savings Account System is designed to run at the end of each month. It reads in files for each savings account; does the appropriate bookkeeping for month-end transactions, such as interest payments and finance charges. Then it produces a Monthly Savings Account Report to be sent to each account holder. This is a report type system [5].

ADVISING (AD)

The advising system is designed to aid in advising a student of which classes they should take. The files it accesses are an Arts & Sciences requirements file, a core requirements file, a suggested four year progression file and a technical elective options file. There are also files on what the student is taking or has taken, these include an Arts & Sciences courses file, Core courses file and technical electives file. The student can make various additions, deletions, and changes to their own files. They can also print out various reports using their own files or the system files. This is a menu driven system with some file management.

COUNTRY CLUB (CC)

The Country Club System is designed to maintain the members' file. This includes adding transactions to a member's record, adding, changing and deleting a member's record. Other items this system does, but are not detailed on the diagrams here, are produce billing statements, list members, and produce a sales report. This system does processing of interactive transactions. It is a menu driven system with some file management.

PROJECT MANAGER (PM)

The Project Manager System is designed to allow the manager of a project team to enter components (tasks) of a project and then see various management reports. The components contain an id, keyword and data. They can be added, deleted or changed in an editor. The system then runs a trace of the project and if it succeeds, the manager can select several management reports to be printed. This system is a combination of the above three systems. It is menu driven with an interactive editor. It also performs a trace and reports the trace results.

QUESTIONNAIRES

The questionnaires consisted of ten questions. Each question has three to four multiple choice answers. The ten questions are the same for each system, some of the multiple choice answers vary for the particular design method. When writing the questionnaires the main goal was to test the subjects on the diagrams. The subjects should have to refer to the diagrams in order to answer the questions correctly. It was determined that there were four types of questions that could be asked.

EXTERNAL BEHAVIOR (EB)

External behavior questions would ask general questions about what the overall behavior of the system would be like.

To answer this type of question correctly the subject would have to read and understand the system as a whole, from the design diagram. Most of these questions not only were the same for each system, but the answers were the same for all design methods. The overall behavior of a system does not change because of the design method used to show that system.

LOCATION OF ACTION/DECISION (LOC)

There are questions on the location of where some action is performed or where a decision is made. These questions will test the subject's ability to trace the design method. The subject will have to locate one section or module within the design in order to answer this type of question correctly.

CONTENTS OF FILES/OUTPUI (CON)

Questions on the contents of files or output, will also test the subject's ability to follow the design method. This question type also allows insight as to which design method clearly gives the subject an understanding of the files that the system uses or of the output that the system produces.

MODIFICATIONS (MOD)

For the subject to have a complete understanding of a

design method they must be able to change or add to the diagram. This is the last type of question to be asked which is where or how a modification should be made. Modifications are somewhat a judgment decision. For a particular modification to a system there is never one absolutely correct solution. The subject's ability to make this type of judgment decision was not what was to be tested. Because of these reasons, the answers to the modification type questions were constructed in such a way that only one of the answers could be correct. The incorrect answers would cause either the system or the modification to be incorrect.

TRAINING

Before each subject was tested over a particular method they were given a brief training session. The training session consists of a design method description, an example diagram and training questions. The system which was used for all of the example diagrams, is the game Othello. It was selected in the hope that the complexity of the training would not affect the results of the actual test.

OTHELLO (OT)

The system was designed to automate the Gabriel Industries, Inc. version of the game Othello. The object of Othello is to have more pieces on the board than your

opponent. Players take turns placing their pieces on an 8 x 8 game board. When a player puts his piece down in such a way that one or more of his opponents pieces are touched on both ends by the first player's pieces, the opponents pieces are then captured. Capturing can be done in one or more of the following directions, up, down, left, right or at any four diagonals. The captured pieces are flipped to the opposite color. Only the plays which capture opposing pieces are legal moves. Play is continued until neither player can move [1].

TRAINING QUESTIONS

Four training questions are given in each design method training session. The questions were written to accomplish two goals. First, the questions reiterate the main characteristics of the particular design method, explained in the design method description. Second, the questions were designed to familiarize the subject with the form and types of questions that are on the actual questionnaires. Only three of the four types of questions are presented. The question types included are an external behavior type question, two location of an action or decision type questions and a modification type question. There is not a contents of files or output type question because the Othello system does not contain files or report output. This is why there are two location type questions given,

this type of question is the closest in form to the missing contents type question. The subjects are not asked to answer the training questions, instead they are given the correct answer with an explanation. The subjects are given the option of repeating the training questions as many times as they wish. The whole training session, however, is timed.

SUBJECTS

The subjects were students and professionals. The students were undergraduate and graduate level computer science students, who may or may not have seen any of the design methodologies before the experiment. Even though the students may have seen the design methods before, they have not worked with them extensively.

Nineteen of the student subjects were from the same undergraduate computer science course, CMPSC 420 Operating Systems. The packets were given to these subjects as an assignment to be completed in a week. When completing the test, they were given points for the course. The subjects knew that the instructor would not be given the results, he was only told if they completed the test or not. They were told to try to answer the questions as best as they could but not to panic if they did not know the design method because that was why they were being tested.

Three of the student subjects were from a different

undergraduate computer science course, CMPSC 300 Algorithmic Processes. The instructor for this course made an announcement to the class asking for volunteers. These subjects were not rewarded for completing the test, they did it on a voluntary basis only. They were not given any time restraints, only asked to complete it as soon as possible. These three subjects were also told that the reason they were being tested was because they did not know the design methods but to try to answer the questions as best as they could.

There were still two more subjects needed to complete the twenty-four student subjects required. These were graduate students who were approached individually and asked to help out. These subjects were not rewarded for participating in the test. They were not given any time limit only asked to do the test in their spare time. These two participants were only told how to start the system, the test does have an introduction explaining the importance of speed and accuracy.

The professionals were programmers who work in the computer science field. The professionals also may or may not have seen all of the design methods before, but they have probably seen or used at least one of the methods through work experience. All of the professional subjects were currently working on graduate degrees. These subjects

were approached individually and asked to participate as volunteers. The professionals were not rewarded in any way for participating in this work. They were told nothing about the test beforehand.

EXPERIMENT

Twenty-four subjects from each test group were needed. This was to ensure that the order, in which the subjects saw the designs, was not a factor. Combining the systems and design methods created sixteen different diagrams. Each subject saw all four systems and all four design methods. Every possible combination of the four methodologies was done, as shown in figure 1.

The systems were always presented in the same order so that the order of systems was not a factor. The order in which they were always presented was Savings Account, Advising, Country Club and Project Manager. This particular order was selected because of their probable familiarity to the subjects. Most anyone would be familiar with a Savings Account. Since the subjects were currently students, they would be somewhat familiar with the Advising system. The Country Club system was a typical file management system with which computer science students should be at least vaguely familiar. Probably few of the subjects were familiar with the Project Manager system.

Subject Number	Savings Account				Advising					Countr	y Clui		Project Manager			
	HOS	Jack	W-O	Y-C	HOS	Jack	W-O	Y-C	HOS	Jack	W-O	Y-C	HOS	Jack	W-O	Y-C
1	1					2					3					4
2	1					2						3			4	
3	1						2		4-10	3						4
4	1						2					3		4		
5	1	1.1.1						2		3					4	
6	1							2			3			4		
7		1			2						3		100			4
8		1			2				1.1.1			3			4	
9		1					2		3							4
10		1					2					3	4			
11		.1				100		2	3						4	
12		1						2			3		4			
13			1		2					3						4
14			.1		2		1000				-	3		4		
15			1			2			3							4
16			1			2						3	4			
17			1					2	3					4		
18			1					2		3			4			
19				1	2					3					4	
20				1	2						3			4		
21			-	1		2			3						4	
22				1		2					3		4			
23				1			2	_	3					4		
24				1	1.1		2			3			4			

FIGURE 1

Each diagram was tested by six different subjects. Each method appeared in the first position, second position, third position and fourth position six times. The training for each methodology was done immediately before that method was tested. Since all four of the diagrams that the subject had, were over different systems and different design methods there was no possibility of training from one diagram to the next. The subject could not learn anything from previous diagrams that would help them on the current diagram.

Understandability, as mentioned earlier, was measured by speed and accuracy. There were two mean times associated with each diagram, these were training and questionnaire time. The training time is the sum of the time spent on the Othello system description, the design method description, the training questions and the system description. The training time is a sum of these individual times. The time that the shell program takes to display the descriptions to the screen is not included. The timing begins when the description is completely displayed and timing stops when the subject hits return to continue.

The questionnaire time is the sum of the ten response times for each questionnaire. Timing begins after a question is scrolled onto the screen and the timing stops when the subject enters a letter representing one of the

multiple choice answers. The subject may type a letter, backspace and change that letter as many times as they wish, the answer is not entered until they hit return. The next question is then scrolled onto the screen and timing begins again. This is continued for all ten questions on the questionnaire.

Accuracy was measured by the mean number wrong. The number missed on each questionnaire were totaled. These totals were then used to calculate means for each of the sixteen diagrams, each of the four systems and each of the four design methods. Each of the sixteen diagram means are the average of six totals. The four mean numbers for the systems are an average of twenty-four totals, as are the four mean numbers for the design methods.

TEST SYSTEM

The diagrams, questionnaires and training all fit together to make up the test system. The test system was implemented as a shell program. This was done for several reasons. The main reason being that it would ensure that all subjects were treated the same way. Also the shell program could easily time the response and collect the data. The data from the shell programs could be manipulated and analyzed easily. Finally, with the test system automated, the subjects could take it at any time.

The shell program asks for the user's subject number (1-24) and from this number it determines the proper order that this particular subject should receive the design methods.

Each subject was given eight packets labeled "TRAINING ONE", "DIAGRAM ONE", "TRAINING TWO", "DIAGRAM TWO", "TRAINING THREE", "DIAGRAM THREE", "TRAINING FOUR", and "DIAGRAM FOUR". The training packets contained a brief description of the Othello system, a brief description of that particular design method and the Othello system drawn with that design method. The diagram packets contained a brief description of the particular system and the diagram that they were tested over.

When the shell program begins, a brief explanation of the experiment is given. All subjects were then asked background questions. Items that were asked, are "List the computer classes that you are taking.", "Have you seen an HOS diagram before?", "Have you seen a Jackson diagram before?", "Have you seen a Warnier-Orr diagram before?", "Have you seen a Yourdon-Constantine diagram before?"

After the introduction, the subject was asked to examine the packet labeled "TRAINING ONE". The shell program then displays the system and diagram descriptions, these are both included in the training packet but they were displayed to ensure that the subjects would read them. The descriptions are followed by sample questions with accompanying

explanations of the correct answer. The subjects were given an option to go through the sample questions as many times as they like and the entire training session was timed.

Following the training, the subjects were asked to examine the packet labeled "DIAGRAM ONE". The shell program then displays the system description on the screen followed by the actual questionnaire. Each question on the questionnaire was timed and graded. It is assumed that speed and accuracy imply understandability. At the end of the questionnaire they were asked to rank the ease of use of this method on a scale of one to five, ranging from excellent to terrible, respectively.

When they finished with the first design method, the shell program asks them to examine the packet labeled "TRAINING TWO". The descriptions, sample questions, examine packet labeled "DIAGRAM TWO", and questionnaire are repeated the same as for design method one. They are also repeated for methods three and four. At the completion of all four design methods the subjects were asked which design method they preferred.

- RESULTS -

Organization

The results include mean times, mean errors, percent wrong, design method ratings and design method selection. The combined results are the combined numbers for both test groups, all forty-eight participants. The two test groups results will also be presented separately, twenty-four professionals and twenty-four students.

Mean Times

times, for the training The and for the mean questionnaire, are indications of the understanding of the diagram. Trends for both test groups can be seen in the combined results of the mean training and questionnaire times. Diagrams 1 and 2 show the mean training and questionnaire times for the combined results. The order in which the all-methods times decrease is Savings Account, Advising, Country Club and Project Manager. This is the same order in which the systems were presented. There are three possible reason for this trend. First, they may have learned from previous diagrams, but since each diagram seen by a subject was different in both system and design method, this was not possible. Second, the subjects may have gotten tired as the test progressed and began entering answers

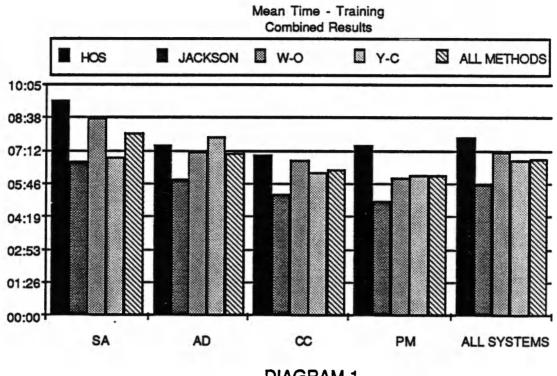


DIAGRAM 1

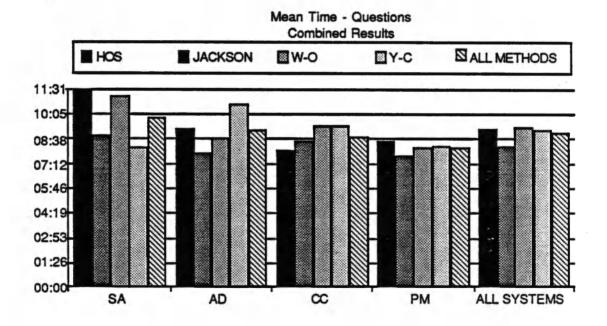


DIAGRAM 2

randomly. Third, the systems were presented in order from the familiar to not familiar. The subjects may have interjected their own assumptions about how the more familiar systems should run. The reason this would give them longer times is what the subject thought was correct would not match the question or the multiple choice answers. These assumptions would block the subjects ability to understand the diagram as it was presented. We will show that this third possible reason is probably correct when we examine the trends in the mean number of errors in the next section.

The design method's training times decrease in the order of HOS, Warnier-Orr, Yourdon-Constantine and Jackson as seen in diagram 1 for all-systems. The descending order for questionnaire times is Warnier-Orr, HOS, Yourdon-Constantine and Jackson.

The mean times for the professionals show slight differences from the combined results. The trend by system for the professional's training and questionnaire times is similar to that of the combined results, as can be seen in diagrams 3 and 4. The system times decrease in the order as which they were presented. Again, the possible reasons for this trend is that either the professionals tired while taking the test or they interjected their own assumptions, as discussed above. By design methods the times for both

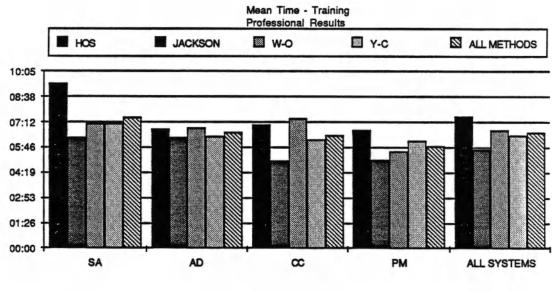


DIAGRAM 3

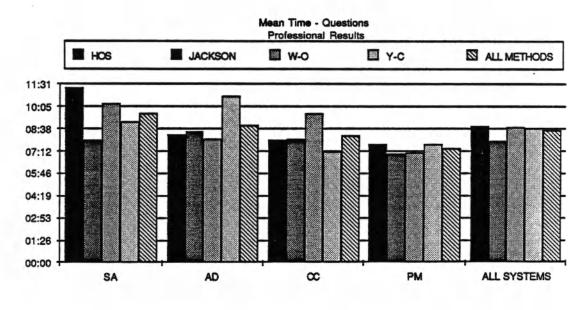


DIAGRAM 4

training and questionnaire decrease in the same order which is HOS, Warnier-Orr, Yourdon-Constantine and Jackson. Most of the professional times are lower than the combined by less than a minute. A few of the professional times were higher than the combined. These are Yourdon-Constantine Savings Account, Jackson Advising, and Warnier-Orr Country Club in the training times. For the questionnaire times they are Yourdon-Constantine Advising, Jackson Advising, and Warnier-Orr Country Club.

The results of mean times have differences student from both the combined and professional results. The student results for training and questionnaire times are displayed in diagrams 5 and 6, respectively. The mean times by system do not decrease in the same order as that the systems were presented. This is a distinct difference from the combined and professional results. Looking back at the possible reasons for the professionals' times we could see possible reasons for the students' trends. First, the student subjects may not have tired as easily but there is nothing to support this and it is highly unlikely. Second. the programmers were making assumptions about the more familiar systems, the students may not have assumed as much about the systems since they were not as familiar with the design methods. The order in which the training times decrease by design method is HOS, Warnier-Orr, Yourdon-

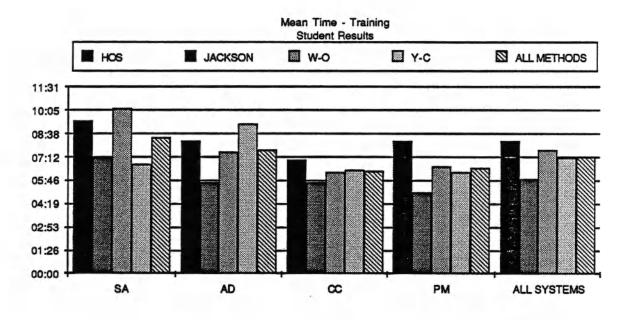


DIAGRAM 5

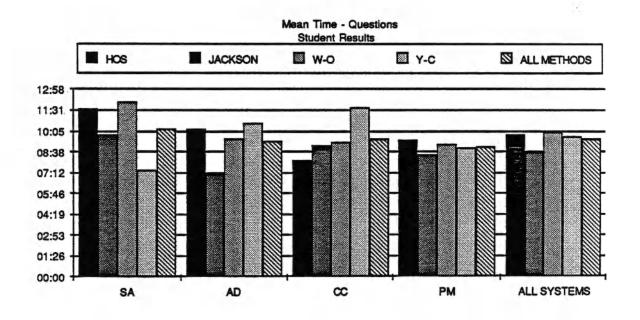


DIAGRAM 6

Constantine, and Jackson. The decreasing order of the questionnaire times for the student is different than that for the professional; it is Warnier-Orr, HOS, Yourdon-Constantine and Jackson.

Mean Brrors

Another indication of the understanding of the diagram is the mean number of errors per questionnaire. The combined results reflect the overall mean number of errors for all forty-eight test participants. The mean number of errors for the combined results are shown in diagram 7. By system, the mean number wrong decrease sharply in the same order that the systems were presented, Savings Account, Advising, Country Club, and Project Manager. This shows that the subjects did not get tired but instead made The subjects jumped to conclusions when they assumptions. thought they knew the system, making the questions more The mean number of errors by design difficult to answer. method decreases in the order of Yourdon-Constantine, Warnier-Orr, Jackson and HOS.

Professional results for the mean number of errors show similar trends as the combined results with slight variations. The professional results in diagram 8 show that the mean number wrong by system, decrease again in the same order that the systems were presented. The decreasing order by design method is Yourdon-Constantine, Warnier-Orr,

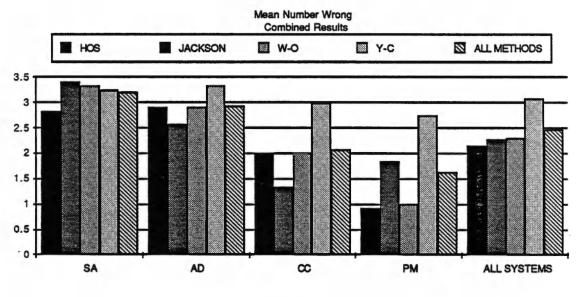


DIAGRAM 7

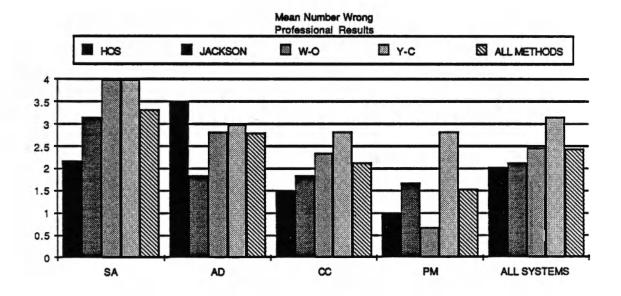
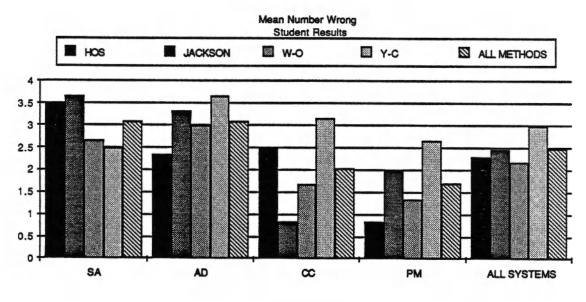


DIAGRAM 8

Jackson and HOS. An interesting point here is that HOS has the least wrong and it had the longest guestionnaire time. Yourdon-Constantine was consistently high in all systems especially in the Savings Account system where it tied for the highest mean number wrong over all of the diagrams. The Warnier-Orr design method varied the most. In the Savings Account system, it tied with Yourdon-Constantine for the highest mean number wrong over all of the diagrams. The Project Manager Warnier-Orr diagram had the lowest number wrong over all of the diagrams. The systems in the Jackson method were between 1.5 and 2.0 mean number of errors with the exception of the Savings Account system which was above 3.0 errors. This was a very interesting result because the Savings Account system was a report type system. Jackson was designed specifically for report type systems. For HOS the mean number wrong was fairly low for all systems with the exception of the Advising system.

The mean number of errors on the diagram systems, for students, are similar to the combined and professional results but the trends for the mean number of errors on the design methods show differences. As seen in diagram 9, the mean number wrong by system decreases in the same order as presented, again. The systems do not decrease sharply however, Savings Account and Advising are even tied at 3.083333 mean number wrong. This supports the possibility

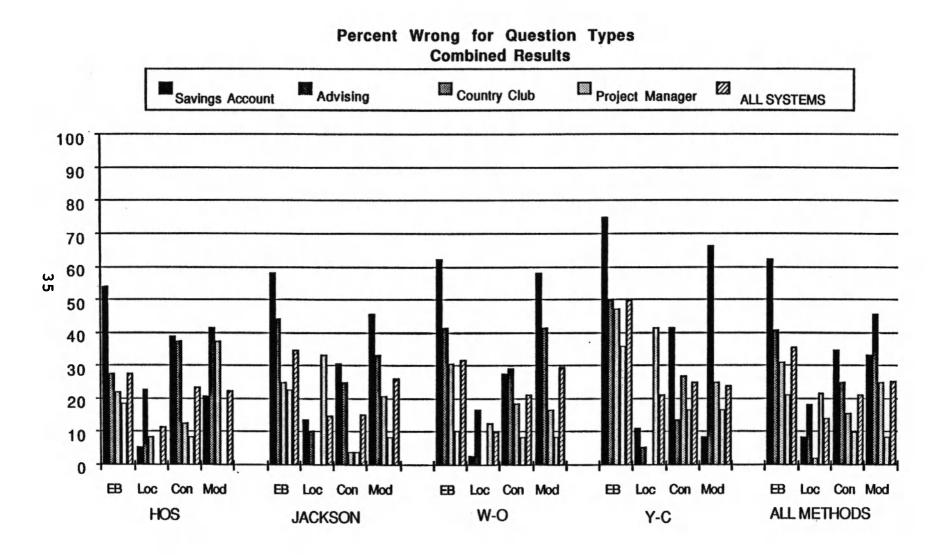


that the students made some assumptions but since they were not as familiar with any of the systems as the professionals, their assumptions did not carry as much of an The systems were basically equally familiar to the impact. The design methods are not in the same student subjects. order of number of errors for the students as they were for the professionals. Yourdon-Constantine, Jackson and HOS are in the same order with Warnier-Orr moving up to the least mean number of errors. The design method with the least wrong, Warnier-Orr is also the design method with the longest questionnaire time. Breaking the design methods out by system we can see the following results. The Yourdon-Constantine method again was consistently high in all of the The Yourdon-Constantine for the Advising System svstems. tied for the highest mean number wrong. Jackson tied for both the highest and the lowest mean number wrong, for the Savings Account and Country Club systems, respectively. Jackson again did the worst on a report type system. The highest system for the HOS design method was Savings Account. The lowest number wrong was tied: the HOS Project Manager diagram and the Jackson Country Club. The Warnier-Orr method was second lowest in all systems which made it the most consistent and the lowest design method over all systems.

Percent Wrong for Question Types

The percent wrong for question types, is an area of interest that can give insight as to where the lack of understandability lies within a design method. The four question types on the questionnaires (external behavior, contents of files or output, location of an action or decision, and modification) are measured for the percent wrong of each type of question. The percentages are represented on diagrams 10 through 18. Each result group, combined, professional and student, has the percentages represented by three different diagrams. On the first diagram, "Percent Wrong for Question Types" there is a three way break out, these are by system, design method and The second diagram, "Percent Wrong for question type. Question Types by Design Method" has a two way break out, by design method and question type. The third diagram, "Percent Wrong for Question Types by System" also has a two way break out, by system and question type.

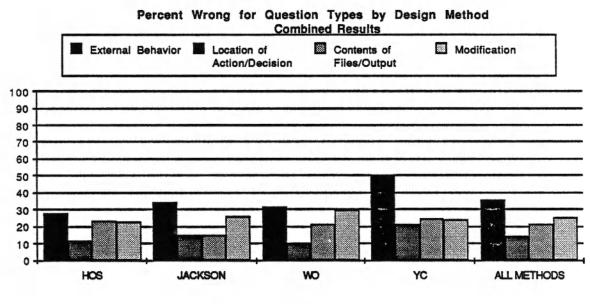
Combined results show what type of questions are the most difficult to answer correctly. The three diagrams for the combined results are diagrams 10 through 12. The "All Methods" for "All Systems" totals can show which type of questions were most difficult to answer. The subjects had the most difficulty on external behavior type questions. They did not understand the overall behavior of any of the diagrams. The second most difficult type of question for



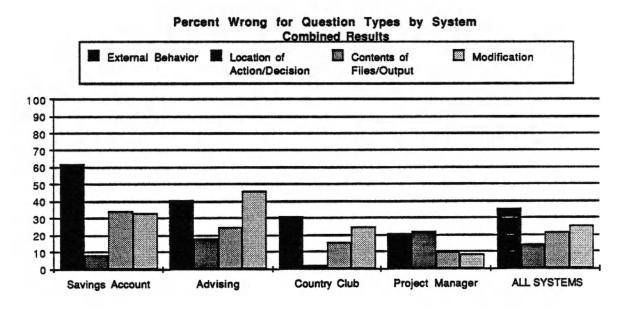
the subjects was modification. Third and fourth in difficulty were the contents of files or output and location of action or decision type questions, respectively. This shows that the subjects could trace most of the diagrams but did not understand them as a whole.

On diagram 12, external behavior and contents of files or output decrease in the order that the systems were presented. Modifications decrease in this order with the exception of Savings Account. Location of action or decision decreases in the order of Project Manager, Advising, Savings Account and Country Club. This indicates that the areas which the subjects made assumptions on was the external behavior and contents of files or output.

On diagram 11, the problem areas within each design method can be seen. All of the design methods did worst on external behavior type questions and best on location of action or decision type questions. HOS had the lowest percentages for external behavior and modification type questions. Warnier-Orr was best on location of action or decision type questions. The lowest percentage for contents of files or output type questions was the Jackson method. Yourdon-Constantine had fifty percent wrong on external behavior type questions. This indicates that when it came to the overall behavior of a system done using Yourdon-Constantine the subjects guessed at how it worked.





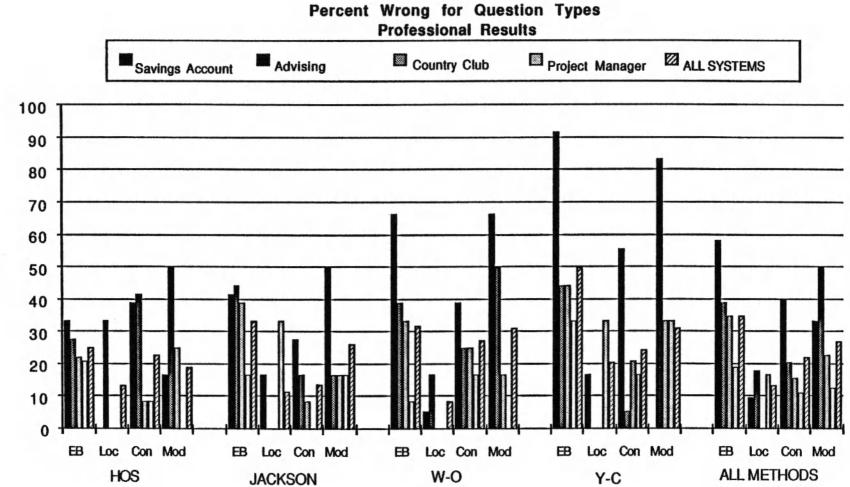


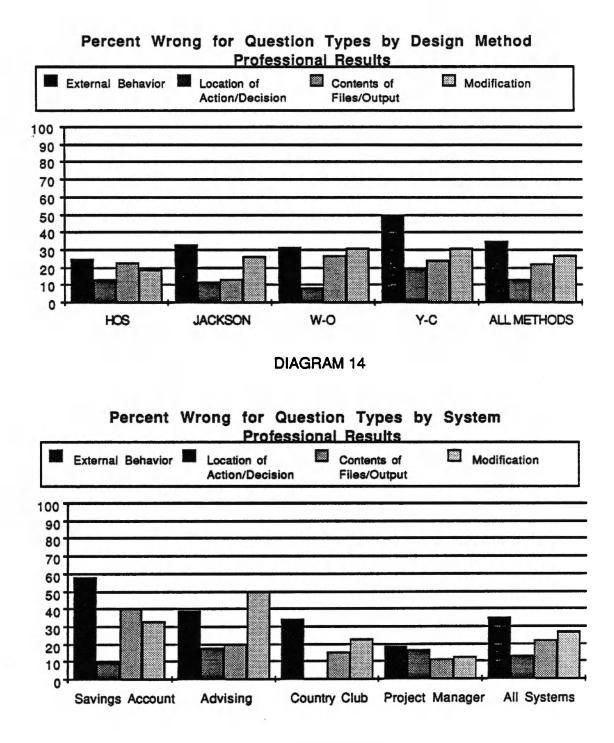
The professional results reflect the areas in which a design method is not understood and which design method is understood best for each particular question type. The professional results are shown on diagrams 13 through 15. The professional subjects again had the most difficulty on external behavior and modification type questions.

By system, diagram 15, the external behavior and contents of files or output decrease in the order of Savings Account, Advising, Country Club and Project Manager. The modification type questions were extremely high for the Advising system as was the external behavior type questions for the Savings Account system. None of the professionals missed any location of action or decision type questions on the Country Club system diagrams.

Diagram 14, shows the trends for the design methods. HOS did the best on external behavior and modification type questions. Warnier-Orr had the lowest percent wrong for location of action or decision type questions and the highest for contents of files or output. The Jackson method did best on contents of files or output type questions. Yourdon-Constantine did the worst on external behavior, modification and location of action or decision.

Looking at more detail on diagram 13 we can see what caused Jackson to do worst on the report type system.





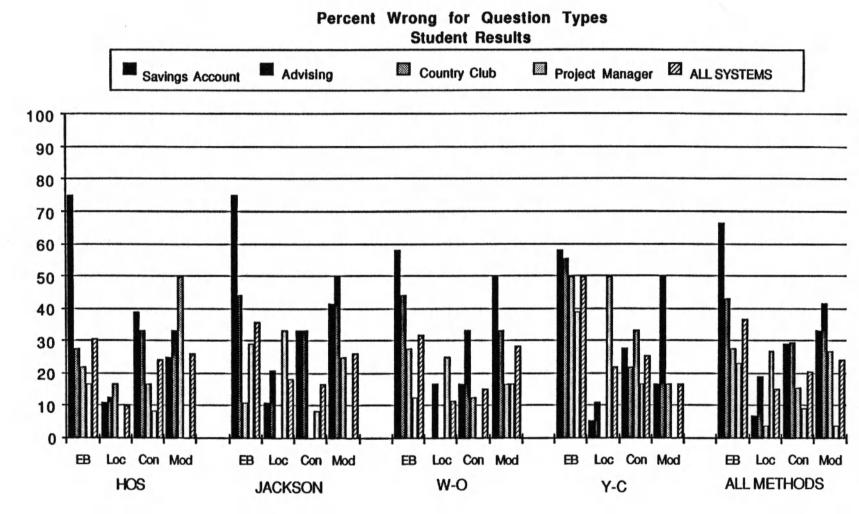


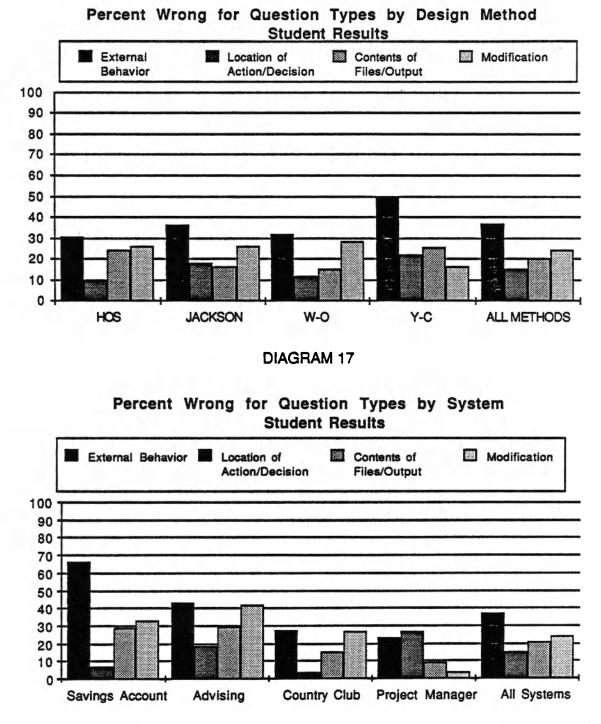
Savings Account within Jackson is high for external behavior as are the other systems within Jackson. Contents of files or output and modification type questions is where there is a difference between the Savings Account system and the other systems in Jackson. Particularly modification type questions, Savings Account missed fifty percent of these questions while the other three systems in Jackson were at 16.6667 percent wrong for modification type questions.

There are many similarities between the professional and student results but there are differences in which design method is best understood within the particular question types. Diagrams 16 through 18 show the student results for percent wrong for question types. The decreasing order for the question types was external behavior, modification, contents of files or output and location of action or decision.

The students only had one area in which they made assumptions, this was external behavior as seen on diagram 18. Modification and contents of file or output type questions decrease in the order that the systems were presented with the exception of savings account.

The student results by design method are different from the professional results as seen on diagram 17. The lowest percentages for external behavior and location of action or

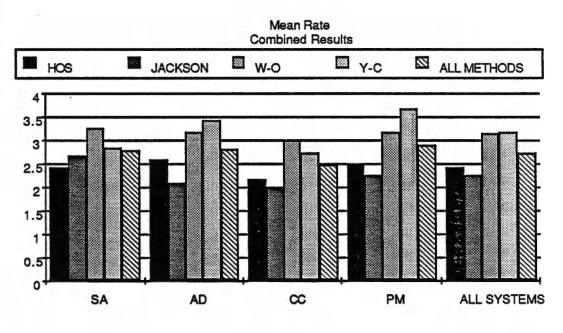




decision type questions is on the HOS design method. Warnier-Orr did the best on contents of files or output with the lowest percentage wrong. Surprisingly, Yourdon-Constantine did the best on modification type questions but it had the highest percentages on the other three question types.

Ratings and Selection

The rating and selection of the design methods by the subject indicates their own opinion of ease of use, but not their actual understandability. On the combined level the subjects ratings closely reflected how well they did on the diagrams. The ratings for the combined results are shown on The rate scale that the subjects were to select diagram 19. from was as follows: 1 - easy, 2 - fair, 3 - moderate, 4 fairly difficult, and 5 - impossible. The subjects did not rate the systems in the same order as they understood them. The decreasing order for the mean ratings is Project Manager, Advising, Savings Account and Country Club. All four of the system mean ratings were between 2.48 and 2.89. The decreasing order by design method was Yourdon-Constantine, Warnier-Orr, HOS and Jackson. With the exception of HOS this is the order in which they performed on the methods. The diagram's ratings varied between 2 and 3.667. The selection of the sixteen diagrams by the fortyeight combined subject is shown in figure 2. A majority of



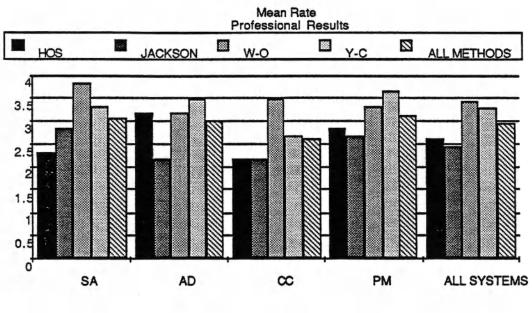
Times Selected	SA	AD	CC	PM	ALL SYSTEMS
HOS	4	4	4	6	18
JACKSON	3	5	7	5	20
W-O	0	1	2	3	6
Y-C	0	2	0	0	2
ALL METHODS	7	12	13	14	46

FIGURE 2

the subjects selected HOS and Jackson as the design method that they preferred. The total on the figure is forty-six because two subjects replied that they did not care for any of the design methods presented.

The professionals rated the diagrams around the moderate (3) rating and were not able to accurately reflect how well they actually understood the diagrams. The mean rates for the professional subjects are shown in diagram 20. The systems were rated in an order similar to how the subjects did on them, with the exception of the Project The decreasing order by system was Project Manager System. Manager, Savings Account, Advising and Country Club. The system ratings went from 2.625 to 3.125. The design method's ratings did not match the professional's understandability of the methods. The decreasing order in which the subject rated the design methods was Warnier-Orr, Yourdon-Constantine, HOS and Jackson. The design method ratings went from 2.458333 to 3.458333. Figure 3 shows the number of subjects who selected each diagram. Most of the professionals selected either HOS or Jackson as the preferred design method. Two of the professionals answered that they would not select any of the four design methods presented.

The students rated the diagrams between fair (2) and moderate (3), they also were not able to reflect their



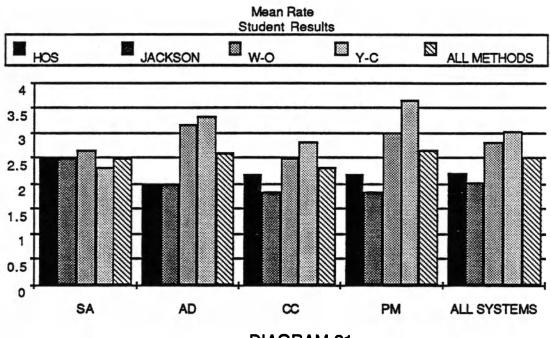
Times Selected	SA	AD	CC	PM	ALL SYSTEMS
HOS	3	1	3	3	10
JACKSON	2	2	5	2	11
W-O	0	0	0	0	0
Y-C	0	1	0	0	1
ALL METHODS	5	4	8	5	22

FIGURE 3

performance through the ratings. The students results of the mean ratings are given in diagram 21. The ratings for the systems did not reflect the students understandability The order in which the rates decreased was of the systems. Project Manager, Advising, Savings Account and Country Club. The system ratings went from 2.333 to 2.666. The design method's ratings also did not reflect the students understandability. The decreasing order in which they rated the design methods was Yourdon-Constantine, Warnier-Orr, HOS and Jackson. The design method ratings went from 2.041666 to 3.041666. The number of student subjects who selected each diagram is given in figure 4. The students were spread fairly even across HOS, Jackson and Warnier-Orr. The systems were not selected evenly. Although the students did not show much of a difference on the understandability of the systems, they did show quite a difference on how easy they perceived the systems to be.

Effects of Experience

Dividing the test groups into those who had seen the design methods before and those who had not seen the design methods before shows the effects of the subject's experience on the performance. The mean errors for these four groups are given in figures 5 through 8. The professionals who had seen the design methods, figure 5, did better than the professionals who had not seen the design methods, figure 6,



Times Selected	SA	AD	CC	PM	ALL SYSTEMS
HOS	1	3	1	3	8
JACKSON	1	3	2	3	9
W-O	0	1	2	3	6
Y-C	0	1	0	0	1
ALL METHODS	2	8	5	9	24

FIGURE 4

Mean Number of Errors for Professionals who HAVE seen the design methods

Mean Errors	Sevinge Account	Advising	Country Club	Project Manager	ALL SYSTEMS
HOS	2.166666666667	3.5	0.75	1	1.785714285714
Jackson	0	2	1.5	2	1.54333333333333
Warnler-Orr	4	2.33333333333333	2.4	0.6	2
Yourdon-Constantine	4.4	3.2	2.5	2.00000000007	3.4
ALL METHODS	2.866666666667	2.714285714286	1.769230769231	1.5	2.232142857143

FIGURE 5

Mean Number of Errors for Professionals who HAVE NOT seen the design methods

Mean Errors	Savings Account	Advising	Country Club	Project Manager	ALL SYSTEMS
HOS	NA	3.5	3	1	2.4
Jackson	4.75	1.5	2	1	2.86666666667
Warnier-Orr	4	3.33333333333333	2	1	3.22222222222
Yeurdon-Constantine	2	2	3		2.777777777777
ALL METHODS	4.1111111111111	2.9	2.545454545455	1.6	2.75

FIGURE 6

Mean Number of Errors for Students who HAVE seen the design methods

Mean Errors	Savings Account	Advising	Country Club	Project Manager	ALL SYSTEMS
HOS	3	- NA	0	NA	1.5
Jackson	4	2	NA	2	2.666666666666
Warnier-Orr	3	2.666666666667	0.33333333333333	2.5	2
Yourdon-Constantine	NA	2.5	3.5	3	1
ALL METHODS	3.25	2.5	1.3333333333333	2.5	2.3

FIGURE 7

Mean Number of Errors for Students who HAVE NOT seen the design methods

Mean Errors	Savings Account	Advising	Country Club	Project Manager	ALL SYSTEMS
HOS	3.6	2.83333333333333			2.36363636363636
Jackson	3.6	3.5	0.83333333333333	2	2.428571428571
Warnier-Orr	2.5	3.333333333333333	3	0.75	2.285714285714
Yourdon-Constantine	2.5	4.25	3	2.5	3
ALL METHODS	3.05	3.277777777778	2.27777777778	1.55	2.526315789474
		FIGUR	E 8		

on seven of the diagrams. These diagrams were Jackson Savings Account and Country Club, Warnier-Orr Advising and Project Manager, Yourdon-Constantine Country Club and Project Manager, and HOS Country Club. Five of the diagrams had a lower mean number of errors if the professionals had not seen the design method before, Jackson Advising and Project Manager, Yourdon-Constantine Savings Account and Advising, and Warnier-Orr Country Club. Three diagrams, HOS Advising and Project Manager and Warnier-Orr Savings Account, had the same mean number of errors for both the professionals who had seen the design methods and those who had not seen them previously. All four of the system for all-methods had a lower mean number wrong if the professionals had seen the design methods before the actual Three of the design methods for all-systems, HOS, test. Jackson, and Warnier-Orr, also had lower means for the professionals who had seen them before. Yourdon-Constantine however, had a lower mean number of errors if the subjects had not seen this design method prior to the test.

The student subjects who had seen the design methods, figure 7, had lower means than the students who had not seen the design methods, figure 8, on the six following diagrams: Jackson Advising, Yourdon-Constantine Advising, HOS Savings Account and Country Club, and Warnier-Orr Advising and Country club. There were five diagrams for which the opposite was true, the subjects who had not seen the design

method did better. These diagrams were Warnier-Orr Savings Account and Project Manager, Yourdon-Constantine Country Club and Project Manager, and Jackson Savings Account. Only one diagram, Jackson Project Manager, had the same mean number of errors for both subgroups of student subjects. By system for all-methods Savings Account and Project Manager had lower mean number of errors if the students had not seen the design methods previously. While by design methods, for all-systems the subjects did better on the Jackson design method if they had not seen this design method prior to the test. Yourdon-Constantine for all-systems had an equal number of errors for both students who had and had not seen this method before taking the test.

The difference between the total mean number wrong, all-methods and all-systems, for the two subdivisions of the students is a little more than two tenths of a point. While the difference in the totals for the two professional groups is almost half an point. Also there were four diagrams for which none of the students had seen the particular design method these were Jackson Country Club, Yourdon-Constantine Savings Account and HOS Advising and Project Manager. The professionals had one diagram, HOS Savings Account, on which all of them had seen the design method previous to testing.

Student vs. Professional

A comparison of students and professionals indicates some differences but many similarities in their performance. The trend for the mean times, training and questionnaire, were similar for both test groups. The professional's times were approximately forty-five seconds to over a minute faster than the student's times. The questionnaire time's ranges for the design methods were fifty-four seconds for the professionals and a minute twenty-three seconds for the The professional questionnaire times ranged from students. 7:53 for Jackson to 8:47 for HOS. The student questionnaire times ranged from 8:38 for Jackson to 10:01 for Warnier-Orr. The students had faster questionnaire times than the professionals on some of the diagrams. The students had faster questionnaire times on the following diagrams: Yourdon-Constantine Savings Account and Advising, Jackson Advising and Warnier-Orr Country Club. This result is not surprising however, because Moher and Schneider [7] proved that on short reading tasks such as this, there is not much of a performance difference between professional and The guestionnaire times did not weigh heavily on student. the understandability of the design methods in this study because the times were so close together.

The professionals had a lower mean number of errors than the students on the HOS and Jackson diagrams while the

students did better than the professionals on the Warnier-Orr and Yourdon-Constantine diagrams. By examining diagrams 8 and 9, we can see differences in the trends between the Warnier-Orr varied the most for the two test groups. professionals by having both the high and the low, while it was the most consistent for the students. Jackson was just the opposite, it was the most consistent for the professionals but had both the high and the low for the The students had a lower mean number wrong than students. the professionals on some of the diagrams. The diagrams on which the students performed better than the professionals are the following: Yourdon-Constantine Savings Account and Project Manager, Warnier-Orr Savings Account and Country Club, HOS Project Manager and Advising, and Jackson Country These are not all of the same diagrams for which the Club. students had faster times than the professionals. The mean number wrong by design method shows that the students looked at the methods equally while the professionals did not. The mean number of errors for the professionals had a difference, between the high and low, of more than one The student's range, between the high and low mean point. number wrong, was less than one point. The mean number wrong by system also shows that the professionals made more assumptions than the students. The professional's mean ranged from 1.5416667 for Project Manager to 3.3333333 for Savings Account, more than one and three-quarters points

difference. The range of the student's mean was from 1.708333 for Project Manager to 3.083333 for both Savings Account and Advising, less than one and a half points difference.

The total percent wrong for question types were similar for both test groups. A comparison of diagrams 13 and 16 shows where the differences in the two groups lie. The highest percent wrong for the students was in HOS and Jackson while the highs for the professionals were in Yourdon-Constantine. Third high was Warnier-Orr and Yourdon-Constantine for the students while for the professional it was in Warnier-Orr. The percent wrong was spread more evenly across all four design methods for the students while the professionals have a steady rise in the order of HOS, Jackson, Warnier-Orr and Yourdon-Constantine.

The students rated the design methods nearly a half of a point easier than what the professionals rated them. The professional's overall mean rate was 2.958333 while the student's overall mean rate was 2.53125. The range between the ratings of the design method was exactly one point for both professionals and students. The range for the students went from 2.04166667 for Jackson to 3.04166667 for Yourdon-Constantine. The range for the professionals went from 2.4583333 for Jackson to 3.4583333 for Yourdon-Constantine. The student's selection of the design methods was divided

fairly even among HOS, Jackson and Warnier-Orr, while the professionals selected HOS and Jackson and none selected Warnier-Orr.

- CONCLUSION -

Result 1:

The subjects interjected their own assumptions into the diagrams for which they thought they knew the system or the design method instead of actually reading the diagram. This is indicated by the trend of the systems on the questionnaire times and mean number wrong. They both decrease in the order that the systems were presented. The professional results decreased sharply. This indicates that the professionals made more assumptions than the students.

Result 2:

The subjects were able to trace the diagrams but had difficulty understanding the diagrams as a whole system. They did well on the contents of files or output and location of action or decision type questions, which required tracing of the diagram. The subjects performed badly on the external behavior and modification type questions, which required overall understandability.

Result 3:

The subjects made more assumptions about external behavior. The percent wrong for external behavior and contents of files or output type questions decreased in the

same order that the systems were presented. This shows that these two areas were the types of questions in which the subjects made assumptions.

Result 4:

Through the ratings, none of the subjects were able to accurately reflect their performance on the diagrams. Neither test group's ratings matched their performance by system or by design method.

Result 5:

The students rated the diagrams as easier than the professionals rated them. This also supports result 1; in that the professionals made more assumptions making the diagrams more difficult than they actually were.

Results 6:

The design method for each test group, HOS for professionals and Warnier-Orr for students, that had the least mean number wrong also had the longest questionnaire time.

Result 7:

Yourdon-Constantine did the worst overall. For both test groups, it had the highest mean number wrong as well as the highest percent wrong for external behavior type

questions. The students did best on modification type questions using Yourdon-Constantine and this method had the second fastest times. Though these times are fair, the accuracy was very bad and accuracy is a more important factor than speed.

Result 8:

Warnier-Orr had both the highest and the lowest mean number of errors for the professionals while it had the lowest overall mean number of errors for the students. It also consistently, had a low percent wrong on location of action or decision question type. The times for Warnier-Orr were always either the longest or second longest.

Result 9:

Jackson did the worst on the report type system which was what this method was designed to be used for. It did particularly bad on the modification type questions for the report type system. It had the second lowest mean number of errors for the students. Overall, however, Jackson did well on contents of files or output type questions and it had the lowest mean number of errors for the professionals. In all of the times Jackson was the fastest.

Result 10:

HOS did the best overall. It had the lowest mean

number wrong for the professionals and the second lowest mean number wrong for the students. This makes HOS effective as both a design and a communication tool. HOS had the lowest percent wrong for external behavior and modification type questions. These two types of questions were the most difficult for the subjects to understand yet HOS did best in these areas. The subjects understood the systems in general terms best when it was designed using HOS but they had difficulty tracing the HOS diagrams. The possible reason for this is that HOS diagrams tend to get large quickly and the subjects may have been overwhelmed by its size. HOS always had either the longest or second longest times but as mentioned earlier accuracy is much more important than speed. Also the times for all of the design methods were so close together that they did not have much of an impact on this study.

Discussion

The conclusion of which design method is the best relies heavily on a speed/accuracy tradeoff. As mentioned earlier the accuracy of a software design should be more important than speed in doing the design. The question is how much of a tradeoff is there. In this study Jackson had the fastest times and HOS had the longest times but there was less than a minute and a half difference between the two. HOS had the lowest mean number wrong and Jackson had

the second lowest mean number wrong. So which design method is best? Jackson did bad on report type systems which is what Jackson is supposed to be used for. HOS however, did the best in the two areas where the subjects had the most difficulty. This is a very important point, because the two areas were external behavior and modification. These two areas were the most important when it came to understandability, being able to trace a diagram is not of much use when the overall behavior is not understood.

The result, that the subjects made assumptions on diagrams for which they thought they knew the system or design method, shows a significant conclusion. No matter what the design method, stick to the rules for that particular design method. Also read the diagram with no biases or assumptions that could deter the understandability of that diagram.

Aside from the major points presented here. There are many other very interesting points that could be concluded. But it is the feeling of this author that in order to positively make conclusions on these other aspects further research is warranted. It is the hope that this research may show insights to areas of design understandability that need further investigation.

Further Research

As mentioned above this research indicates that further research is warranted. Some suggestions of possible research is given here. A larger test should be given. This should include larger diagrams and longer tasks as well as larger test groups. The larger diagrams may show that the difference in the design methods may be related to diagram size. Having a longer task may give a clearer picture of the speed that each design method requires. It could give wider variations between the times for each method. Finally, a larger test group will remove any extremes in the scores.

Another suggestion for modifying this test is to add to the possible answers. It could either be kept multiple choice and add a "None of the above" option, or allow the subjects to enter their own answer. The second suggestion however, would make the grading more subjective.

A final suggestion is to trace the thought process more carefully. This could be done by having the subjects vocalize what they were thinking. This could be either tape recorded or video taped. The test system could also be a more controlled test instead of allowing the subjects to take the test on their own free time.

Appendix A

System Descriptions and Questionnaires

SAVINGS ACCOUNT SYSTEM

The Savings Account System is designed to run at the end of each month. It reads in files for each savings account; does the appropriate bookkeeping for month end transactions, such as interest payments and finance charges. Then it produces a Monthly Savings Account Report to be sent to each account holder. 1. Which file contains the date and amount of a deposit? A. Account Balance File ===> B. Transaction File C. Daily File 2. Which is the correct form for the headings? ===> A. ACCOUNT # ----ACTIVITY month-name BALANCE FORWARD OF \$--.--DATE ACTION DR CR BALANCE B. ACCOUNT # ---- ACTIVITY month-name BALANCE FORWARD OF \$--.--DATE ACTION DR CR BALANCE C. DATE ACTION DR CR BALANCE BALANCE FORWARD OF \$---ACTIVITY month-name ACCOUNT / -----

3. Which of the following does the Monthly Savings Account Report contain?

A. Finance Charge and Interest ===> B. Finance Charge or Interest C. Neither finance Charge nor Interest D. Always Interest only

4. When is the balance reported?

A. After each transaction B. At the end of the report C. Before all transactions ===> D. All of the above

5. The bank does not want to have a finance charge for dependent's accounts, no matter how low the average balance is. What should be changed? HOS A. All average balance calculations should be deleted ===> B. The tests out of 'CALCULATE ADJUSTMENTS' need to be changed C. Remove the 'PROCESS FINANCE CHARGE' module JACKSON A. 'CONSUME AVE. BALANCE, PRODUCE ADJUSTMENT' needs to be changed to 'PRODUCE ADJUSTMENT' B. The tests out of 'CONSUME AVE. BALANCE, PRODUCE ===> ADJUSTMENT' need to be changed C. Remove the 'CONSUME FINANCE CHARGE, PRODUCE FINANCE LINE' module WO A. All average balance calculations should be deleted B. The tests '?4' and '?5' need to be changed ===> C. Remove the 'FINANCE' module YC A. All average balance calculations should be deleted B. The tests within 'ADJUSTMENTS CONTROLLER' need to be changed ===> C. Remove the 'PROCESS MONTH END' module 6. The bank wants to add a bulletin, about special services they have to offer, at the bottom of the report. Where would you add this to the system? HOS A. Add the module to the right of 'PROCESS TOTALS' and below 'PRODUCE MONTHLY SAVINGS ACCOUNT REPORT' B. Add the module to the left of 'PROCESS TOTALS' and ===> below 'PRODUCE MONTHLY SAVINGS ACCOUNT REPORT' C. Add the module below 'PROCESS TOTALS' JACKSON A. Add the module to the left of 'PRODUCE TOTAL LINE' and below 'PRODUCE MONTHLY SAVINGS ACCOUNT **REPORT** B. Add the module to the right 'PRODUCE TOTAL LINE' ===> and below 'PRODUCE MONTHLY SAVINGS ACCOUNT REPORT' C. Add the module below 'PRODUCE TOTAL LINE' WO A. Add to the 'TOTALS' module B. Add a module between the 'TOTALS' and '.END' modules ===> C. Add to the '.END' module

YC ===> A. Add the module to the right of 'FORMAT TOTALS' B. Add the module to the left of 'GET ACCOUNT BALANCE FILE & TRANSACTON FILE C. Add the module below 'FORMAT TOTALS' 7. When is it decided if there is a finance charge or if interest should be paid? A. After each transaction B. After the totals are printed ===> C. After all of the transactions 8. What is done after a deposit is reported? A. The totals are reported ===> B. Checks if there are any more transactions to process C. Withdrawals are processed D. Interest is calculated and reported 9. When is the average balance calculated? HOS, JACKSON, WO A. After the totals are printed B. After all transactions are reported and before ===> totals are reported C. Immediately after the headings are printed YC A. Within 'TRANSACTION CONTROLLER' B. Within 'ADJUSTMENT CONTROLLER' ===> C. Within 'PROCESS MONTH END' 10. What module prints the account number of the customer that the report is being printed for? HOS A. PROCESS TOTALS B. PROCESS MONTH END CALCULATIONS ===> C. PROCESS HEADINGS JACKSON A. PRODUCE TOTAL LINE **B. PRODUCE ADJUSTMENT** ===> C. PRODUCE HEADING

- WO
 - A. TOTALS
 - B. ADJUSTMENTS
- ===> C. HEADING
 - YC
 - A. FORMAT TOTALS
 - B. PROCESS MONTH END
- ===> C. FORMAT HEADINGS

ADVISING SYSTEM

This system is designed to aid in advising a student of a classes they should take. The file it accesses are an Arts & Sciences requirements file, a core requirements file, a suggested four year progression file and a technical elective options file. There are also files on what the student is taking or has taken, these include an Arts & Sciences courses file, Core courses file and technical electives file. The student can make various additions, deletions, and changes to their own files. They can also print out various reports using their own file or the system files.

- 1. What is displayed after an Arts & Sciences course is deleted?
 HOS, JACKSON, WO
 A. Advising menu
 B. Maintain menu
 ==> C. Update menu
 YC
 A. Advising menu
 B. Maintain menu
 ==> C. A&S menu
- 2. What is displayed after the printflag is set to false?
 - A. Report menu ===> B. Advising menu
 - C. Maintain menu
- 3. Which report contains the core courses that the student is taking or has taken?
 - A. FOUR YEAR PROGRESSION REPORT ===> B. STUDENT CORE REPORT C. CORE REPORT
- 4. Which reports would be the same for all students?
 - ===> A. FOUR YEAR PROGRESSION REPORT, CORE REPORT, TECH ELECT REPORT
 - B. STUDENT TECH ELECT REPORT, STUDENT CORE REPORT, STUDENT A&S REPORT
 - C. FOUR YEAR PROGRESSION REPORT, STUDENT CORE REPORT, STUDENT A&S REPORT
- 5. After a report is printed to the printer, what is displayed?
 - A. Advising menu
 - ==> B. Report menu
 - C. Maintain menu
- 6. What module would you select, from the Advising menu module, if you wanted to delete an A&S course that you have since dropped?

HOS

- ===> A. MAINTAIN STUDENT INFORMATION
 - **B. OBTAIN STUDENT INFORMATION**
 - C. GENERAL REPORTS
- JACKSON
- ===> A. CONSUME STUDENT FILE, MAINTAIN STUDENT INFORMATION
 - **B. CREATE STUDENT FILE**
 - C. GENERAL REPORTS
 - WO
- ===> A. MAINTAIN STUDENT INFORMATION CHOICE
 - B. OBTAIN STUDENT INFORMATION CHOICE
 - C. GENERAL REPORTS CHOICE
 - YC
- ===> A. MAINTAIN STUDENT INFORMATION
 - B. GET STUDENT INFORMATION, CREATE FILES
 - C. GENERAL REPORTS
- 7. Which module initially sets up the students files, by creating them?
 - HOS
 - A. UPDATE A&S
 - B. UPDATE CORE
 - ===> C. OBTAIN STUDENT INFORMATION
 - JACKSON
 - A. CONSUME A&S RECORD, UPDATE A&S
 - B. CONSUME CORE RECORD, UPDATE CORE
 - ===> C. CREATE STUDENT FILE
 - WO
 - A. UPDATE A&S CHOICE
 - B. UPDATE CORE CHOICE
 - ===> C. OBTAIN STUDENT INFORMATION CHOICE
 - YC
 - A. UPDATE A&S
 - **B. UPDATE CORE**
 - ===> C. GET STUDENT INFORMATION

- 8. The school wants to add a module that will compare courses that have already been taken, A&S, core and tech. elect., with the four year progression file. From this comparison the module will give 'advice' as to which courses should be taken the following semester. On which menu should the option be placed to select such a module?
 - A. Maintain menu
 - B. Report menu
 - ===> C. Advising menu
- 9. Which module determines if a report is to be output or not?
 - HOS, WO
 - A. PROCESS MAINTAIN MENU CHOICE
 - ===> B. CHECK PRINT FLAG C. REPORT MENU
 - JACKSON
 - A. DISPLAY MAINTAIN MENU, PROCESS CHOICE
 - ===> B. CHECK PRINT FLAG
 - C. DISPLAY REPORT MENU, PROCESS CHOICE

. . .

- -

- YC
 - A. MAINTAIN CONTROLLER
- ===> B. FORMAT REPORT
 - C. REPORT CONTROLLER
- 10. If you were changing some technical elective courses and wanted to quit what item(s) would you select from which menu(s)?
 - HOS
 - ===> A. Select 'MAINTAIN STUDENT INFORMATION' from the 'UPDATE TECH ELECT MENU', Select 'ADVISING' from the 'MAINTAIN MENU', and Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - B. Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - C. Select 'PRINTFLAG = FALSE' from the 'REPORT MENU', Select 'EXIT PROGRAM' from the 'ADVISING MENU'

JACKSON

- ==> A. Select 'RETURN TO MAINTAIN MENU' from the 'UPDATE TECH ELECT MENU', Select 'RETURN TO ADVISING' from the 'MAINTAIN MENU', and Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - B. Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - C. Select 'PRINTFLAG = FALSE' from the 'REPORT MENU', Select 'EXIT PROGRAM' from the 'ADVISING MENU'

WO

- - B. Select 'EXIT PROGRAM CHOICE' from the 'ADVISING MENU'
 - C. Select 'EXIT REPORT CHOICE' from the 'REPORT MENU', Select 'EXIT PROGRAM CHOICE' from the 'ADVISING MENU'

YC

10. What data items does MAINTAIN CONTROLLER use?

- ===> A. STUDENT A&S, STUDENT CORE, and STUDENT TECH ELECT B. STUDENT A&S, STUDENT CORE, STUDENT TECH ELECT and CHOICE
 - C. STUDENT A&S, STUDENT CORE, STUDENT TECH ELECT and SYSTEM FILES

COUNTRY CLUB SYSTEM

This Country Club System is designed to maintain the member's file. This includes adding transactions to a member's record, adding, changing and deleting a member's record. Other items this system does, but are not detailed on this diagram, are produce billing statements, list members, and produce a sales report.

1. What is displayed after a member's record is deleted? ===> A. Update Menu B. Delete prompt C. Modify Menu 2. If you are beginning to add a transaction, what is displayed after an invalid name is entered? A. Update Menu ===> B. Main Menu C. Modify Menu 3. What is the basic information in a new member's record? A. Name, Account Number, and Office Phone ===> B. Name, Account Number, Address and Phone C. Name, Account Number, and Occupation 4. What information must be entered for adding a transaction? A. Amount, Code, Date, and Type B. Account Number, Name and Amount ===> C. Account Number, Name, Type, Date, Code, and Amount 5. If a member no longer had a phone number which module would you enter to update this member's record? HOS, YC A. 'DELETE MEMBER RECORD' B. 'ADD MEMBER RECORD' ===> C. 'MODIFY MEMBER RECORD' JACKSON A. 'CONSUME ACCOUNT NUMBER, PROCESS ACCOUNT' B. 'ADD MEMBER RECORD' ===> C. 'MODIFY MEMBER RECORD' WO A. 'CONSUME ACCOUNT NUMBER, PROCESS ACCOUNT' B. 'ADD MEMBER RECORD'

===> C. 'MODIFY MEMBER RECORD CHOICE'

- 6. What must be entered before a member's record can be modified?
 - ===> A. Account number only
 - B. Member name only
 - C. Account number and member name
- 7. When a new member is added to the system, where does the account number come from?
 - A. Whoever is entering the record makes it up
 - ===> B. The system generates it
 - C. The member's phone number is entered as their account number
- 8. The country club wants to modify the system so that a member, who's account is delinquent can not perform a transaction until their bill has been paid. Where would you add this module?
 - HOS, JACKSON, WO
 - A. Add another level after the member's name has been validated
 - B. Add another level after 'UPDATE TRANSACTION' has been selected
 - C. After everything else for a transaction has been entered
 - YC
 - ===> A. After the member's name has been validated
 - B. After 'UPDATE TRANSACTION' has been selected
 - C. After everything else for a transaction has been entered
- 9. The country club wants their Vice President in charge of membership to be the only person who can delete a member's record. They have decided to have the security be a password that only he knows. Where would you place the prompt and test for the password?
 - A. After the member's account number is entered before the delete prompt
 - B. After delete has been selected from 'UPDATE MENU' C. Before the 'UPDATE MENU' is displayed

10. A member has three transactions, in entering those how many times would you see the main menu?

> A. Three B. Two C. One

===>

PROJECT MANAGER SYSTEM

The Project Manager System is designed to allow the manager of a project team to enter components [tasks] of a project and then see various management reports. The components contain an id, keyword and data. They can be added, deleted or changed in an editor. The system then runs a trace of the project and if it traces, the manager can select several management report to be printed.

1. What is displayed after a component is deleted? A. 'MAIN MENU' B. 'OUTPUT MENU' ===> C. 'EDITOR MENU' 2. What is displayed after a trace fails? ===> A. An error message B. 'OUTPUT MENU' C. 'MAIN MENU' 3. What module allows you to see the components in a component file? HOS, WO A. 'PRODUCE OUTPUTS' B. ADD COMPONENT ===> C. 'PROCESS EDITOR MENU CHOICE' · · · · · JACKSON A. 'PRODUCE OUTPUTS' B. ADD COMPONENT ===> C. 'DISPLAY EDITOR MENU, PROCESS CHOICE' YC A. 'PRODUCE OUTPUTS' B. 'ADD COMPONENT' ===> C. 'EDITOR CONTROLLER' 4. What does a component consist of? A. A keyword ===> B. An id, keyword and data C. An id and data 5. After entering the editor, what is in the 'TEMP FILE'? ===> A. The component file to be edited B. The trace of a component file

C. The keywords from the component file to be edited

6. What is displayed after a report is printed? HOS, JACKSON, WO A. 'MAIN MENU' ===> B. 'OUTPUT MENU' C. 'EDITOR MENU' YC A. 'MAIN MENU' B. 'REPORT MENU' == => C. 'EDITOR MENU' 7. Where would you add a module which would save the comp file under a different name? HOS, JACKSON, WO ===> A. As another option on the editor menu B. As another option on the main menu C. As another option on the output menu YC ===> A. As another option on the editor menu B. As another option on the main menu C. As another option on the report menu 8. Where would you add a module which would reassign an existing id to an existing keyword and data? HOS, JACKSON, WO ===> A. As another option on the editor menu B. As another option on the main menu C. As another option on the output menu YC ===> A. As another option on the editor menu B. As another option on the main menu C. As another option on the report menu 9. On the editor menu, what is the difference between the quit and abort options? A. Quit does NOT save the edited changes, abort does ===> B. Quit does save the edited changes, abort does NOT C. There are no differences

- 10. Which modules are repeated until the exit from the module is chosen?
 - HOS
 - A. PROCESS TRACE, TRACE COMP FILE and EDIT COMP FILE
 - B. EDIT VALID COMP FILE and TRACE VALID COMP FILE
 - ===> C. PROJECT MANAGER SYSTEM, COMPONENT EDITOR, EDIT TEMP FILE, and PRODUCE OUTPUTS

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JACKSON
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- A. PROCESS TRACE, COMPONENT EDITOR and EXIT PROGRAM
- B. PROCESS VALID COMP FILE and PERFORM TRACE, PROCESS RETURN CODE
- ===> C. DISPLAY MAIN MENU, DISPLAY EDITOR MENU, DISPLAY NAME PROMPT, and DISPLAY OUTPUT MENU
 - WO
 - A. PROCESS TRACE, PROCESS COMP FILE NAME and EDIT COMP FILE
- B. EDIT VALID COMP FILE and TRACE VALID COMP FILE
 ==> C. PROJECT MANAGER, EDITOR, EDIT TEMP FILE, and PRODUCE OUTPUTS
 - YC
- 10. What data elements are used by the editor controller?
 - A. COMP FILE and CHOICE
 - B. TEMP FILE and CHOICE
 - ===> C. COMP FILE, TEMP FILE and CHOICE

Appendix B

Design Method Descriptions and Training Questions

Higher Order Software Design Method

This is an Higher Order Software [HOS] diagram. It is a decomposition tree, that is, a tree of boxes where each box can be decomposed or divided into more sub-boxes. There are two possible types of decomposition: composition and partition. Composition is an 'and' function. All of the sub-boxes are performed. They are executed from right to left. Partition is an 'or' function. This is indicated by conditions associated with arcs coming out of the decomposed box. The conditions are shown in brackets {}. Only the one box for which the condition holds true is executed.

A module refers to either a single box or a group of boxes. If a single box is referred to as a module it should be on the lowest level i.e. no other boxes below it. In this diagram 'DISPLAY BOARD' could be called a module. If a group of boxes is referred to as a module, the box on the highest level of the group is referenced, the module then includes that box and non-module sub-boxes. When 'CONTINUE PLAY' is referred to as a module it includes 'SWITCH PLAYER AND OPP' and 'PLAY'.

In order for an HOS diagram to show iteration, a recursive call to a module at a higher level is performed. For example, this is used to allow players to take turns. After the first player has moved and captured, the module 'CONTINUE PLAY' is executed. Within this module there is a recursive call to 'PLAY'. To trace this you would move up the tree to the box labeled 'PLAY' and start back down the tree with the new player and opp.

- 1. What happens after it is discovered that the current player 'CAN'T MOVE'?
 - A. The OPP moves
 - B. The OPP wins
 - C. The PLAYER must try to move again

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is A. After 'CAN'T MOVE' is displayed the variable 'CAN'T.MOVE' is incremented, the 'PLAYER' and 'OPP' are switched and then a recursive call to 'PLAY'. Again, to trace this you would move back up the tree to the box labeled 'PLAY' then start back down from here. If the variable 'CAN'T.MOVE' is equal to two at this point the game would be over, but with the information given it can't be assumed the OPP would win.

- 2. Which modules are performed as part of 'PROCESS SEARCH RESULTS'?
 - A. 'PROCESS NO POSSIBLE MOVE' then 'PROCESS POSSIBLE MOVE'
 - B. 'PROCESS POSSIBLE MOVE' then 'PROCESS NO POSSIBLE MOVE'
 - C. Either 'PROCESS NO POSSIBLE MOVE' or 'PROCESS POSSIBLE MOVE'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is C. The module 'PROCESS SEARCH RESULTS' is decomposed conditionally. This means that only ONE of the submodules are performed. The one that is performed is the module with the true condition.

- 3. Which module are performed as part of 'GAME OVER'?
 - A. 'OTHELLO' then 'DISPLAY WINNER'
 - B. 'DISPLAY WINNER' then 'OTHELLO'
 - C. 'OTHELLO', 'PLAY' and 'DISPLAY WINNER'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. The module 'GAME OVER' is an 'and' decomposition. This means that the sub-modules are performed from right to left. It first executes 'DISPLAY WINNER' and then it performs a recursive call to 'OTHELLO'.

- 4. Where would you add a module that would allow a player to ask for the computer's advice on where he should move next?
 - A. Add the module as another conditional out of 'PROCESS MOVE POSITION'
 - B. Add the module below 'SETUP'
 - C. Add the module as a prompt out of 'GAME OVER'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is A. You wouldn't want B because this would limit the player to asking for advice at the beginning of the game only. Similarly with C, the player could only ask at the end of a game. A, would allow the user to ask for advice before they moved.

Jackson Design Method

This is a Jackson diagram. It is based on the structure of the inputs and the structure of the outputs. Each are described in terms of a series of boxes. The structures are then combined to form the software structure of the whole system. There are three possible types of structures within a Jackson diagram: sequence, condition and repetition. A sequence is a box that contains no special symbol and has more than one box below it i.e. a sequence of boxes are executed. This sequence of boxes is performed from left to right. 'SETUP' is an example of a sequence structure.

A condition structure is designated by the '0' symbol in the upper right corner of the box. The box is executed based on some condition. This can also be called a selection. One of the sub-trees is selected based on some condition. 'MOVE' and 'GAME OVER' is a condition structure. One, of these two, is selected based on some condition.

A repetition structure is designated by the '*' symbol. This indicates iteration, the sub-tree below this box will be performed multiple times. 'PLAY' is an example of an repetition structure. After the sub-tree below it is executed, you would return to 'PLAY' and execute the sub-tree again. This looping is continued until the end of some iteration condition.

A structure may also be referred to as a module.

1. Which module or structure actually shows the move and the capture?

- A. 'SETUP'
- B. 'PROCESS LEGAL MOVE'
- C. 'GAME OVER'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. Within the condition structure the boxes 'PLACE PLAYER...' and 'FLIP OPP[S]' are executed. These show the move and capture, respectively.

- 2. What modules are performed during the execution of 'PROCESS MOVE POSITION'?
 - A. 'PROCESS LEGAL MOVE' then 'PROCESS ILLEGAL MOVE'
 - B. 'PROCESS ILLEGAL MOVE' then 'PROCESS LEGAL MOVE'
 - C. Either 'PROCESS LEGAL MOVE' or 'PROCESS ILLEGAL MOVE'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is C. 'PROCESS LEGAL MOVE' and 'PROCESS ILLEGAL MOVE' is a conditional structure, which means that only ONE of the two are selected based on some condition. The condition is probably whether it was a legal move or not.

3. Which structure is executed after a game is over?

A. 'OTHELLO' B. 'PLAY' C. none

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is A. After one game is over and 'GAME OVER' is executed you would move up the tree to check for iterations. There is an iteration at 'PLAY' and then 'OTHELLO'. Since the game is over you would assume that a new game would be started, therefore a second iteration of 'OTHELLO' would be assumed.

4. Where would you add a module that would allow a players to choose who 'PLAYS' first, DARK or LIGHT?

A. Below the module 'MOVE'
B. Below the module 'SETUP'
C. Below the module 'GAME OVER'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. Because you would want to choose before a game begins. More specifically, before 'PLAYER' and 'OPP' are assigned DARK and LIGHT the first time.

Warnier-Orr Design Method

This is a Warnier-Orr diagram. The structure is described using brace notation. Each brace has a name that labels the brace. The name appears to the left of the brace. To the right of the brace is a list of entries that comprise the body of that brace into its parts. Each entry [part] can be further expanded into another brace. The brace can be interpreted as a call to the body of the brace. A brace can also be referred to as a module.

A notation below a brace name or entry indicates the number of times that the particular brace or entry will be performed. This notation can indicate repetition by ([1,n]?1'), which means that it is executed 1 to n times. The (?1') is a footnote reference which gives the condition that ends the repetition. The module 'PLAY' has the notation ([1,p]?1') which means that the body of 'PLAY' will be executed many time. If you look up the footnote '?1', you can see that 'PLAY' will stop looping when 'END OF PLAY IS TRUE'.

An exclusive or relationship is indicated by two notations. First, there will be a notation under each name or entry, that is to be ORed. This will be in the form of (0,1]?2', it will be executed 0 or 1 times based on the condition referenced by ?2'. Second, there will be a (+)' symbol between the names or entries that are to be ORed. In this diagram, 'MOVE' and 'GAME OVER' are examples of an exclusive or relationship. One or the other of these two modules will be executed based on the conditions ?2' and ?3'.

If an exclusive or relationship is not represented then and and relationship is assumed. These names or entries are executed from top to bottom. 1. Which module would you return to after a legal move is processed?

- A. 'PROCESS LEGAL MOVE'
- B. MOVE
- C. 'PLAY'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is C. After to last statement in the body of 'PROCESS LEGAL MOVE' is executed you would move back out of the brackets until an iteration, that has not completed, is encountered. In this case 'PLAY' is the first iteration encountered. Since 'END OF PLAY' is still set to false you would again execute its body.

- 2. Which modules are performed during the execution of 'PROCESS WINNER'?
 - A. 'DISPLAY PLAYER 'WINS', 'DISPLAY 'TIE' and 'DISPLAY OPP 'WINS''
 - B. Either 'DISPLAY PLAYER 'WINS' or 'DISPLAY 'TIE' or 'DISPLAY OPP 'WINS'
 - C. 'DISPLAY 'TIE'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. The three entries 'DISPLAY PLAYER 'WINS', 'DISPLAY 'TIE', 'DISPLAY OPP 'WINS' all have an exclusive or relationship. This means, that based on their conditions [?6, ?7, ?8] only ONE of them is executed.

- 3. Where are the variables PLAYER, OPP, PLAYER.CNT, OPP.CNT and CAN'T.MOVE initialized?
 - A. 'SETUP' B. 'SETUP' and 'PROCESS LEGAL MOVE' C. 'SETUP' and 'PROCESS MOVE POSITION'
 - HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is A. 'Initialized' is the first time that a variable is given a value. For these variables this is done in the module 'SETUP'.

- 4. Where would you add a module that would allow a player to quit in the middle of a game?
 - A. Add the another exclusive or module in the body of 'PROCESS MOVE POSITION'
 - B. Add the module in the body of 'SETUP'
 - C. Add the module in the body of 'GAME OVER'

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is A. If it were in 'PLAY' or 'GAME OVER' then the player could only quit at the beginning or end of a game. To allow each player a chance to quit before they move you would place the module in 'PROCESS MOVE POSITION'.

Yourdon-Constantine Design Method

This is a Yourdon-Constantine diagram. It is produced from a data flow diagram. The resulting system represents the flow of the data through the system. Data is indicated on the arcs, between the boxes, with an arrow showing the direction of flow.

The top box is called 'MAIN'. There are possibly three sections below the main, these are: afferent, efferent and transform sections. They can be thought of as input, output and processing, respectively. Each can be represented as one box or many boxes.

The leftmost section is the afferent. These boxes can usually be identified by the term "GET". There is often one box for each major input. Users can be indicated by a box with a slash in the bottom right corner. A users box means that interaction with the user occurs here.

The middle section is the transform. These boxes perform the main action or processing within the system. One type of transform module can be identified by the term 'CONTROLLER'. Based on some data, it controls or selects which ONE of the sub-modules should be performed.

The rightmost section, if it exists, is the efferent. These boxes can usually be identified by the term 'PUT'. There is often one box for each major output. Again, user boxes can be indicated here.

The three sections of afferent, transform and efferent can be continued recursively down the tree. That is, a transform module can have below it an afferent, transform and efferent section. An afferent module below any module can be grouped with the afferent on the far left. 1. Where is it decided if the current game is over or not?

A. GAME OVER CONTROLLER

- **B. GAME CONTROLLER**
- C. PLAY

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. The decision needs to be made before control is given to either PLAY or GAME OVER CONTROLLER. Once the decision is made that the game is over then GAME OVER CONTROLLER does receive control.

2. Where does the turn change players?

- A. SET UP
- B. PLAY
- C. PROCESS LEGAL MOVES

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is C. Of the three possible answers it would be the correct one. PROCESS NO POSSIBLE MOVES also switches the player and opp. SETUP initialize them the first time but PROCESS LEGAL MOVE switches them after every move.

3. What data items does GAME CONTROLLER use to 'control' the game?

- A. PLAYER and OPP
- B. PLAYER.CNT, OPP.CNT and CAN'T.MOVE
- C. BOARD

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. GAME CONTROLLER checks to see if the counts add up to the number of possible positions. It also checks to see if both can't move.

- 4. Where would you add a prompt and decision that would ask a player if he wanted to play or not?
 - A. POSITION CONTROLLER
 - B. SETUP
 - C. GAME OVER

HIT RETURN WHEN READY FOR AN EXPLANATION

The correct answer is B. If it were in GAME OVER then the player could only choose not to play after he already played a game. Instead, it would be better to prompt first and then play. Appendix C

Example Shell Programs

This appendix is examples of the test system shell programs. All of the shell programs are not presented here. The example programs included are intro, hos.tr and hos.ad. Intro starts the system and coordinates the order that the particular subject goes through the design methods. Hos.tr is the training session for the HOS design method. The shell commands in the training programs are the same only the particular descriptions and questions vary from program to program. Hos.ad is the test program for the HOS design of the Advising System. Again, the shell commands in the test programs do not vary only the particular questions change. All of the questions and descriptions are given in Appendices A and B. Following is a list of all of the test system shell programs.

Test System Shell Programs intro

Training Programs

hos.tr jack.tr wo.tr yc.tr

Test Programs

hos.sa hos.ad hos.cc hos.pm jack.sa jack.ad jack.cc jack.pm wo.sa wo.ad wo.cc wo.pm yc.sa yc.ad yc.cc

yc.pm

intro

cd /usrb/daniels echo "

WELCOME TO

NOVICE PROGRAMMER UNDERSTANDABILITY

OF SOFTWARE DESIGN METHODOLOGIES

RESEARCH PROJECT

PLEASE ENTER YOUR SUBJECT NUMBER the number on the top of your packet 11 ok=no while test \$ok = no do read subnum case \$subnum in 1) ok=yes first=hos second=jack third=wo fourth=yc;; 2) ok=yes first=hos second=jack third=yc fourth=wo;; 3) ok=yes first=hos second=wo third=jack fourth=yc;; 4) ok=yes first=hos

second=wo third=yc fourth=jack;; 5) ok=yes first=hos second=yc third=jack fourth=wo;; 6) ok=yes first=hos second=yc third=wo fourth=jack;; 7) ok=yes first=jack second=hos third=wo fourth=yc;; 8) ok=yes first=jack second=hos third=yc fourth=wo;; 9) ok=yes first=jack second=wo third=hos fourth=yc;; 10) ok=yes first=jack second=wo third=yc fourth=hos;; 11) ok=yes first=jack second=yc third=hos fourth=wo;; 12) ok=yes first=jack second=yc third=wo fourth=hos;; 13) ok=yes first=wo second=hos third=jack fourth=yc;; 14) ok=yes first=wo second=hos

third=yc

- fourth=jack;; 15) ok=yes first=wo second=jack third=hos fourth=yc;; 16) ok=yes first=wo second=jack third=yc fourth=hos;; 17) ok=yes first=wo second=vc third=hos fourth=jack;; 18) ok=yes first=wo second=yc third=jack fourth=hos;; 19) ok=yes first=yc second=hos third=jack fourth=wo;; 20) ok=yes first=yc second=hos third=wo fourth=jack;; 21) ok=yes first=yc second=jack third=hos fourth=wo;; 22) ok=yes first=yc second=jack third=wo fourth=hos;; 23) ok=yes first=yc second=wo third=hos fourth=jack;; 24) ok=yes first=yc second=wo third=jack fourth=hos;;
- *) ok=no

```
echo "That is an incorrect subject number
PLEASE enter then number on your packet";;
esac
done
echo "SUBJECT NUMBER" $subnum >> out/${subnum}.out
```

echo "

In this experiment you will be given four different designs and questionaires. You are to use the design to answer the accompanying questions. We are testing how easily you understand the designs. Each question will be timed and graded, so that we are looking at speed and accuracy of each answer. Once you enter an answer you will not be given a chance to change. Be sure that you have typed the answer you want before you hit return. If you type a wrong letter you can correct it, before you hit return, by backspacing and retyping the answer you want. Before each design, you will be given an example design with an explanation of that type of design and some sample questions. You will not answer the sample questions, instead the correct answer will be explained to you. On the actual questionaires an explanation will not be given. Please follow the instructions carefully so that our data will be as accurate as possible.

PLEASE HIT RETURN WHEN YOU ARE READY TO BEGIN

11 read temp echo " First, we would like to get some information about your background. Please enter your name" read name echo "NAME" \$name >> out/\${subnum}.out echo "USER" \$user >> out/\${subnum}.out echo "Have you ever seen or used an HOS diagram? (y/n)" read hos echo "SEEN HOS" \$hos >> out/\${subnum}.out echo "Have you ever seen or used a JACKSON diagram? (y/n)" read jack echo "SEEN JACK" \$jack >> out/\${subnum}.out echo "Have you ever seen or used a WARNIER-ORR diagram? (y/n)" read wo echo "SEEN WO" \$wo >> out/\${subnum}.out

```
echo "
Have you ever seen or used a YOURDON-CONSTANTINE diagram? (y/n)"
read yc
echo "SEEN YC" $yc >> out/${subnum}.out
echo "What computer science courses are you currently taking?
      PLEASE type the word 'END', on a line by itself, when
      you have finished entering your classes"
echo "COURSES TAKING" >> out/${subnum}.out
read class
while test ($class!=END)-o($class!=End)-o($class!=end)
do
 echo $class >> out/${subnum}.out
read class
done
echo "PLEASE EXAMINE THE DRAWING LABELED TRAINING ONE"
echo "OTHELLO DESCRIPTION" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.tr
date >> out/${subnum}.out
echo $first "TRAINING" >> out/${subnum}.out
date >> out/${subnum}.out
 . ${first}.tr
date >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED DIAGRAM ONE"
echo "
SAVINGS ACCOUNT DESCRIPTION
" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.sa
date >> out/${subnum}.out
 . ${first}.sa
echo "Rate the ease of use for this diagram.
      1-excellent
      2-fair
      3-moderate
      4-poor
      5-terrible."
read rate
echo $first "RATE" $rate >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED TRAINING TWO"
echo "OTHELLO DESCRIPTION" >> out/${subnum}.out
```

```
date >> out/${subnum}.out
 . des.tr
date >> out/${subnum}.out
echo $second "TRAINING" >> out/${subnum}.out
date >> out/${subnum}.out
 . ${second}.tr
date >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED DIAGRAM TWO"
echo "
ADVISING DESCRIPTION
" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.ad
date >> out/${subnum}.out
 . ${second}.ad
echo "Rate the ease of use for this diagram.
      1-excellent
      2-fair
      3-moderate
      4-poor
      5-terrible."
read rate
echo $second "RATE" $rate >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED TRAINING THREE"
echo "OTHELLO DESCRIPTION" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.tr
date >> out/${subnum}.out
echo $third "TRAINING" >> out/${subnum}.out
date >> out/${subnum}.out
 . ${third}.tr
date >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED DIAGRAM THREE"
echo "
COUNTRY CLUB DESCRIPTION
" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.cc
date >> out/${subnum}.out
 . ${third}.cc
echo "Rate the ease of use for this diagram.
      1-excellent
```

```
2-fair
      3-moderate
      4-poor
      5-terrible."
read rate
echo $third "RATE" $rate >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED TRAINING FOUR"
echo "OTHELLO DESCRIPTION" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.tr
date >> out/${subnum}.out
echo $fourth "TRAINING" >> out/${subnum}.out
date >> out/${subnum}.out
 . ${fourth}.tr
date >> out/${subnum}.out
echo "PLEASE EXAMINE THE DRAWING LABELED DIAGRAM FOUR"
echo "
PROJECT MANAGER DESCRIPTION
" >> out/${subnum}.out
date >> out/${subnum}.out
 . des.pm
date >> out/${subnum}.out
 . ${fourth}.pm
echo "Rate the ease of use for this diagram.
      1-excellent
      2-fair
      3-moderate
      4-poor
      5-terrible."
read rate
echo $fourth "RATE" $rate >> out/${subnum}.out
echo "Which design diagram did you like the best, HOS, JACKSON,
      WARNIER-ORR, or YOURDON-CONSTANTINE?"
read choice
echo "DIAGRAM CHOICE" $choice >> out/${subnum}.out
echo "
```

THANK YOU

hos.tr

echo " This is an Higher Order Software [HOS] diagram. It is a decomposition tree, that is, a tree of hoxes where each box can be decomposed or divided into more sub-boxes. There are two possible types of decomposition: composition and partition. Composition is an 'and' function. All of the sub-boxes are performed. They are executed from right to left. Partition is an 'or' function. This is indicated by conditions associated with arcs coming out of the decomposed box. The conditions are shown in brackets {}. Only the one box for which the condition holds true is executed.

A module refers to either a single box or a group of boxes. If a single box is referred to as a module it should be on the lowest level i.e. no other boxes below it. In this diagram 'DISPLAY BOARD' could be called a module. If a group of boxes is referred to as a module, the box on the highest level of the group is referenced, the module then includes that box and non-module sub-boxes. When 'CONTINUE PLAY' is referred to as a module it includes 'SWITCH PLAYER AND OPP' and 'PLAY'.

In order for an HOS diagram to show iteration, a recursive call to a module at a higher level is performed. For example, this is used to allow players to take turns. After the first player has moved and captured, the module 'CONTINUE PLAY' is executed. Within this module there is a recursive call to 'PLAY'. To trace this you would move up the tree to the box labeled 'PLAY' and start back down the tree with the new player and opp.

PLEASE HIT RETURN WHEN READY TO CONTINUE" read again while test \$again != n do echo "

1. What happens after it is discovered that the current player 'CAN'T MOVE'?

- A. The OPP moves
- B. The OPP wins
- C. The PLAYER must try to move again

HIT RETURN WHEN READY FOR AN EXPLANATION

.

read temp

11

echo " The correct answer is A. After 'CAN'T MOVE' is displayed the variable 'CAN'T.MOVE' is incremented, the 'PLAYER' and 'OPP' are switched and then a recursive call to 'PLAY'. Again, to trace this you would move back up the tree to the box labeled 'PLAY' then start back down from here. If the variable 'CAN'T.MOVE' is equal to two at this point the game would be over, but with the information given it can't be assumed the OPP would win.

HIT RETURN " read temp echo "

2. Which modules are performed as part of 'PROCESS SEARCH RESULTS'?

- A. 'PROCESS NO POSSIBLE MOVE' then 'PROCESS POSSIBLE MOVE'
- B. 'PROCESS POSSIBLE MOVE' then 'PROCESS NO POSSIBLE MOVE'

C. Either 'PROCESS NO POSSIBLE MOVE' or 'PROCESS POSSIBLE MOVE'

HIT RETURN WHEN READY FOR AN EXPLANATION

.

11

read temp echo " The correct answer is C. The module 'PROCESS SEARCH RESULTS' is decomposed conditionally. This means that only ONE of the sub-modules are performed. The one that is performed is the module with the true condition. HIT RETURN **

read temp echo "

3. Which module are performed as part of 'GAME OVER'?

- A. 'OTHELLO' then 'DISPLAY WINNER'
 B. 'DISPLAY WINNER' then 'OTHELLO'
 C. 'OTHELLO', 'PLAY' and 'DISPLAY WINNER'

HIT RETURN WHEN READY FOR AN EXPLANATION

11

read temp

echo " The correct answer is B. The module 'GAME OVER' is an 'and' decomposition. This means that the sub-modules are performed from right to left. It first executes 'DISPLAY WINNER' and then it performs a recursive call to 'OTHELLO'.

HIT RETURN 11 . . .

read temp echo "

- 4. Where would you add a module that would allow a player to ask for the computer's advice on where he should move next?
 - A. Add the module as another conditional out of 'PROCESS MOVE POSITION'

· . .

- B. Add the module below 'SETUP'
- C. Add the module as a prompt out of 'GAME OVER'

HIT RETURN WHEN READY FOR AN EXPLANATION

" read temp echo " The correct answer is A. You wouldn't want B because this would limit the player to asking for advice at the beginning of the game only. Similarly with C, the player could only ask at the end of a game. A, would allow the user to ask for advice before they moved.

"echo "Would you like to go through the example questions again?[y/n]" read again done

```
hos.ad
```

11

ADVISING HOS" >> out/\${subnum}.out echo "

ADVISING SYSTEM

echo " 1. What is displayed after an Arts & Sciences course is deleted?

> A. Advising menu B. Maintain menu

C. Update menu

o. opdate men

SELECT

"
"
echo "NUMBER 1" >> out/\${subnum}.out
date >> out/\${subnum}.out
read choice
date >> out/\${subnum}.out
echo "C " \$choice >> out/\${subnum}.out

echo "

2. What is displayed after the printflag is set to false?

A. Report menu B. Advising menu C. Maintain menu

SELECT

```
"
echo "NUMBER 2" >> out/${subnum}.out
date >> out/${subnum}.out
read choice
date >> out/${subnum}.out
echo "B " $choice >> out/${subnum}.out
```

echo " 3. Which report contains the core courses that the student is taking or has taken?

- A. FOUR YEAR PROGRESSION REPORT
- B. STUDENT CORE REPORT
- C. CORE REPORT

SELECT

"
echo "NUMBER 3" >> out/\${subnum}.out
date >> out/\${subnum}.out
read choice
date >> out/\${subnum}.out
echo "B " \$choice >> out/\${subnum}.out

4. Which reports would be the same for all students?

- A. FOUR YEAR PROGRESSION REPORT, CORE REPORT, TECH ELECT REPORT
- B. STUDENT TECH ELECT REPORT, STUDENT CORE REPORT, STUDENT A&S REPORT
- C. FOUR YEAR PROGRESSION REPORT, STUDENT CORE REPORT, STUDENT A&S REPORT

SELECT

```
"
echo "NUMBER 4" >> out/${subnum}.out
date >> out/${subnum}.out
read choice
date >> out/${subnum}.out
echo "A " $choice >> out/${subnum}.out
```

echo "

5. After a report is printed to the printer, what is displayed?

- A. Advising menu B. Report menu
- C. Maintain menu

SELECT

```
"
"
echo "NUMBER 5" >> out/${subnum}.out
date >> out/${subnum}.out
read choice
date >> out/${subnum}.out
echo "B " $choice >> out/${subnum}.out
```

- 6. What module would you select, from the Advising menu module, if you wanted to delete an A&S course that you have since dropped?
 - A. MAINTAIN STUDENT INFORMATION
 - B. OBTAIN STUDENT INFORMATION
 - C. GENERAL REPORTS

SELECT

11

```
echo "NUMBER 6" >> out/${subnum}.out
date >> out/${subnum}.out
read choice
date >> out/${subnum}.out
echo "A " $choice >> out/${subnum}.out
```

- 7. Which module initially sets up the students files, by creating them?
 - A. UPDATE A&S
 - **B. UPDATE CORE**
 - C. OBTAIN STUDENT INFORMATION

SELECT

"
echo "NUMBER 7" >> out/\${subnum}.out
date >> out/\${subnum}.out
read choice
date >> out/\${subnum}.out
echo "C " \$choice >> out/\${subnum}.out

echo "

- 8. The school wants to add a module that will compare courses that have already been taken, A&S, core and tech. elect., with the four year progression file. From this comparison the module will give 'advice' as to which courses should be taken the following semester. On which menu should the option be placed to select such a module?
 - A. Maintain menu
 - B. Report menu
 - C. Advising menu

SELECT

```
"
echo "NUMBER 8" >> out/${subnum}.out
date >> out/${subnum}.out
read choice
date >> out/${subnum}.out
echo "C " $choice >> out/${subnum}.out
```

9. Which module determines if a report is to be output or not?

A. PROCESS MAINTAIN MENU CHOICE

- B. CHECK PRINT FLAG
- C. REPORT MENU

SELECT

"
"
echo "NUMBER 9" >> out/\${subnum}.out
date >> out/\${subnum}.out
read choice
date >> out/\${subnum}.out
echo "B " \$choice >> out/\${subnum}.out

- 10. If you were changing some technical elective courses and wanted to quit what item(s) would you select from which menu(s)?
 - A. Select 'MAINTAIN STUDENT INFORMATION' from the 'UPDATE TECH ELECT MENU', Select 'ADVISING' from the 'MAINTAIN MENU', and Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - B. Select 'EXIT PROGRAM' from the 'ADVISING MENU'
 - C. Select 'PRINTFLAG = FALSE' from the 'REPORT MENU', Select 'EXIT PROGRAM' from the 'ADVISING MENU'

SELECT

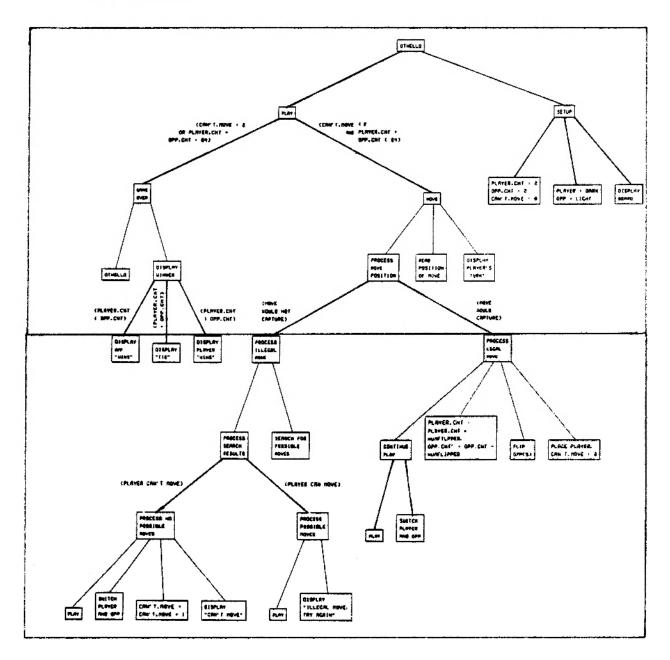
"
"
echo "NUMBER 10" >> out/\${subnum}.out
date >> out/\${subnum}.out
read choice
date >> out/\${subnum}.out
echo "A " \$choice "

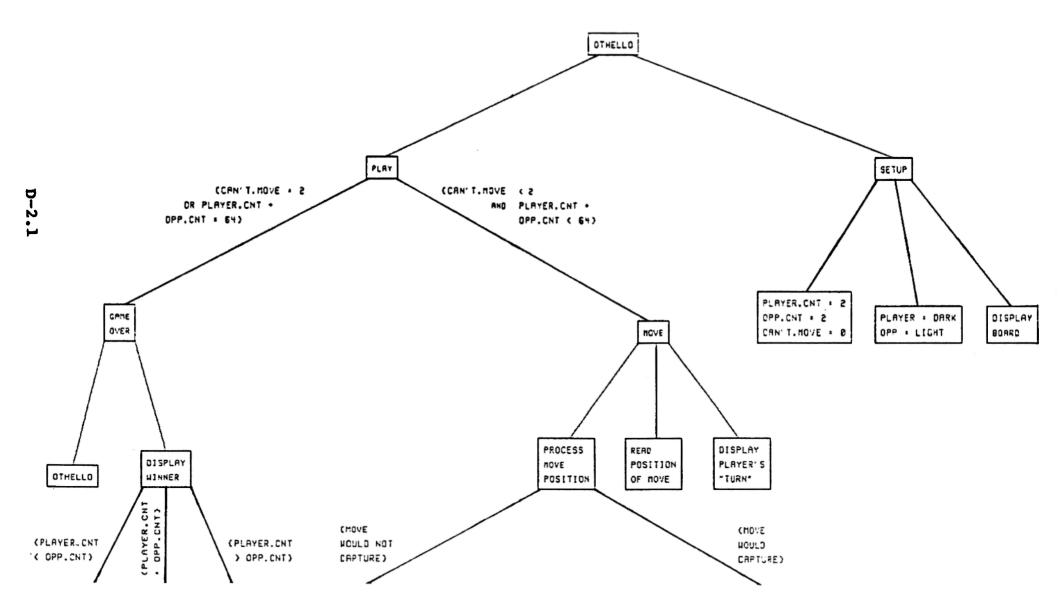
" >> out/\${subnum}.out

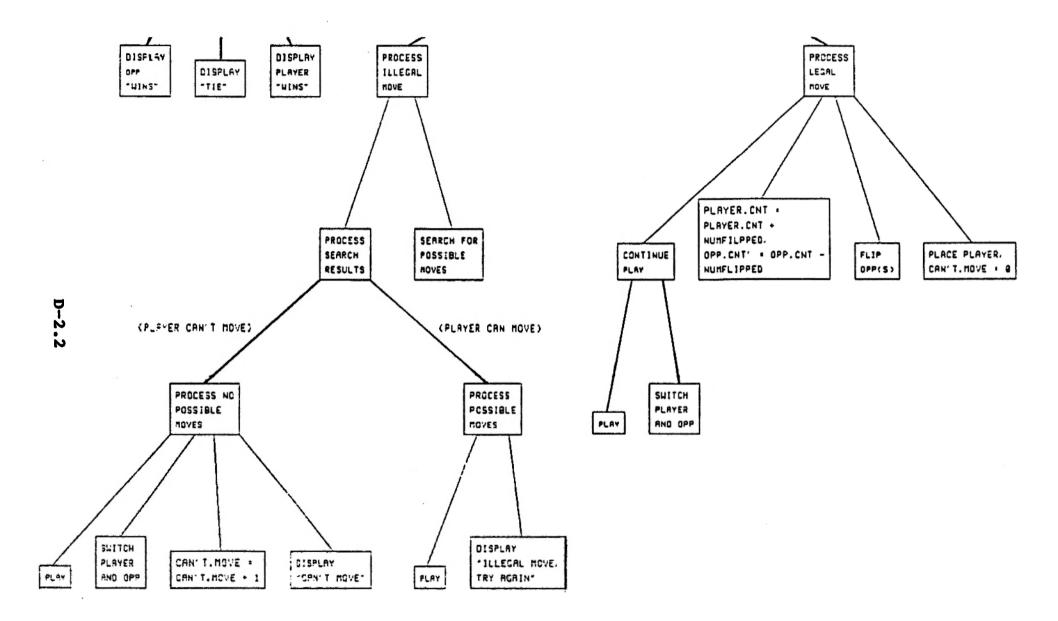
Appendix D

Diagrams

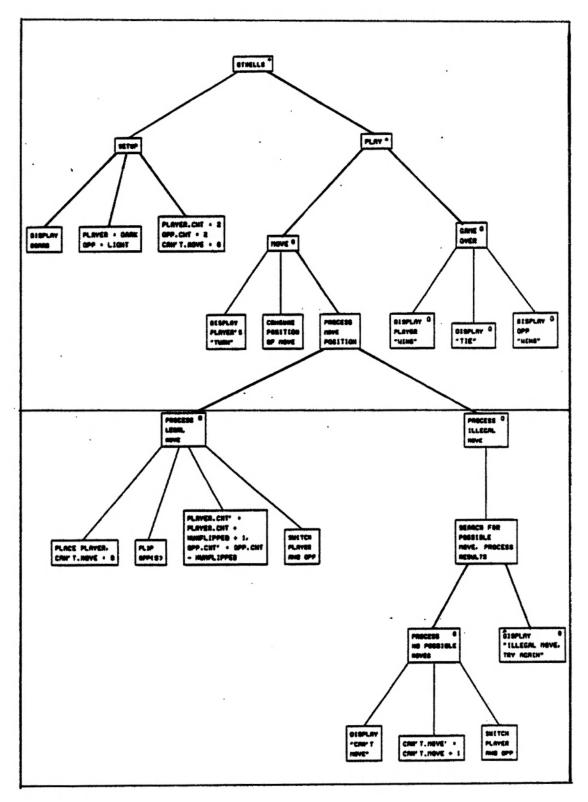


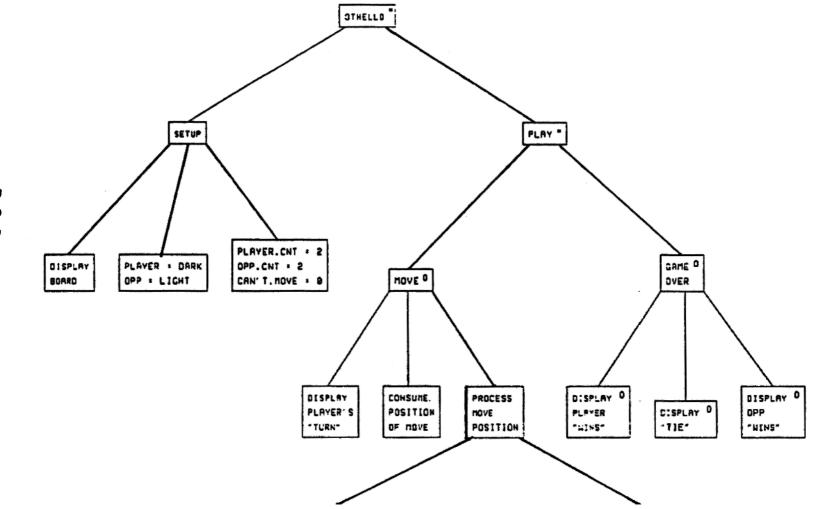




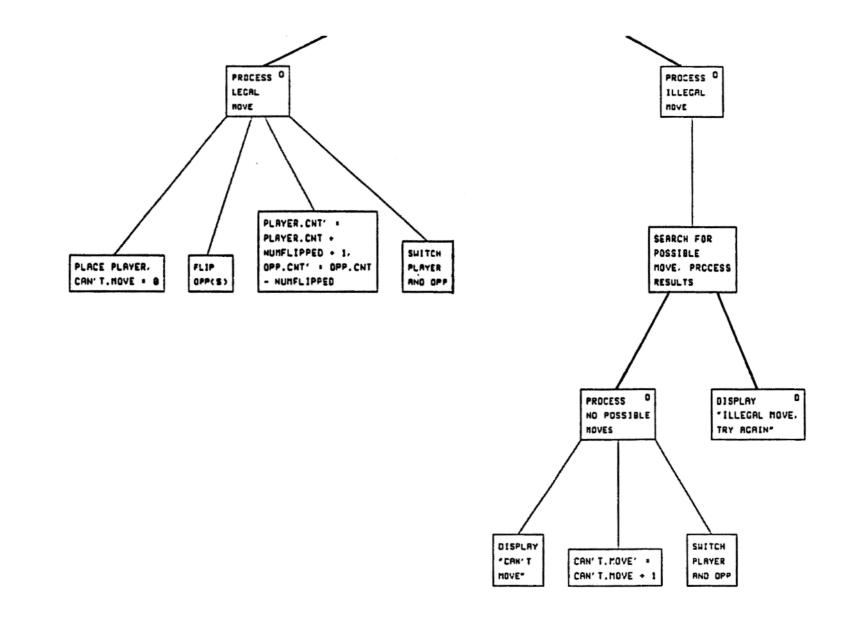




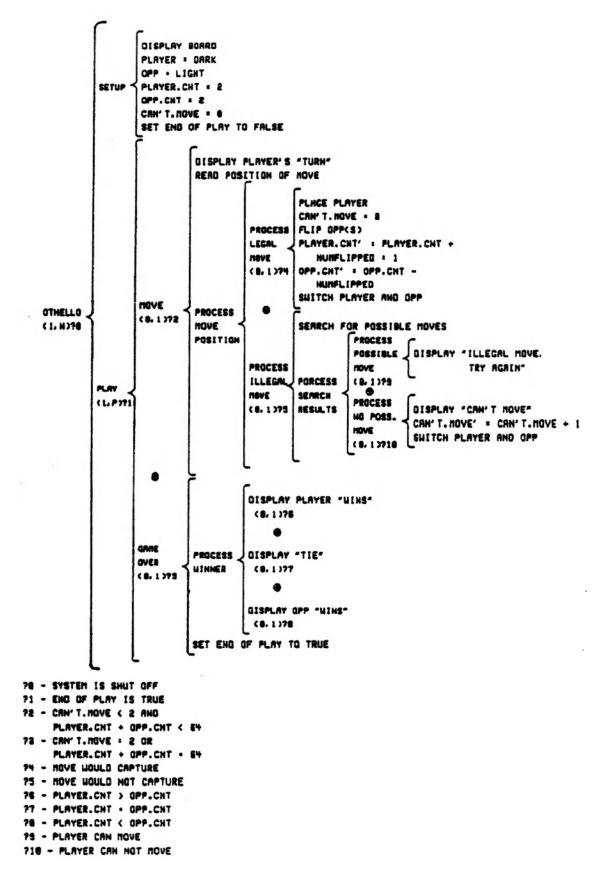




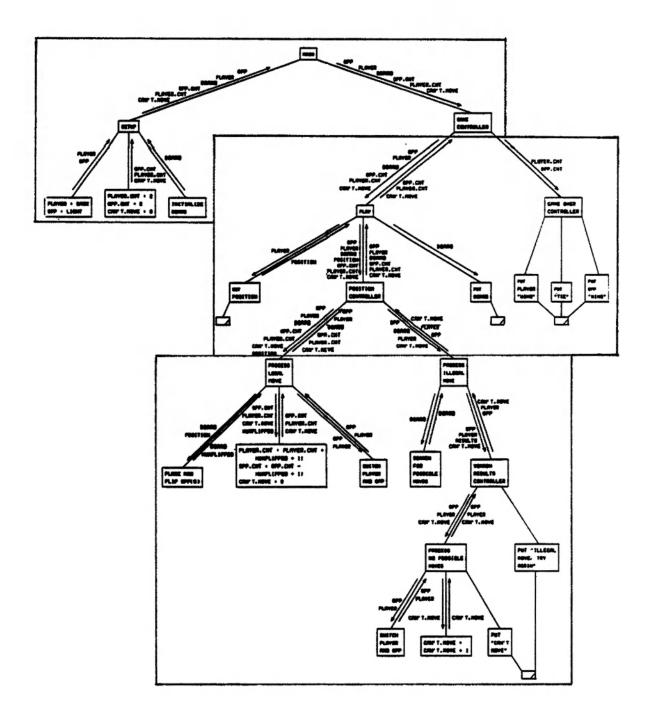
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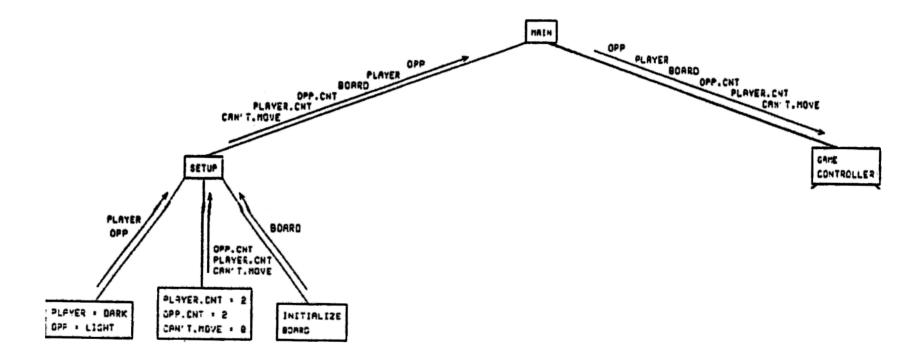


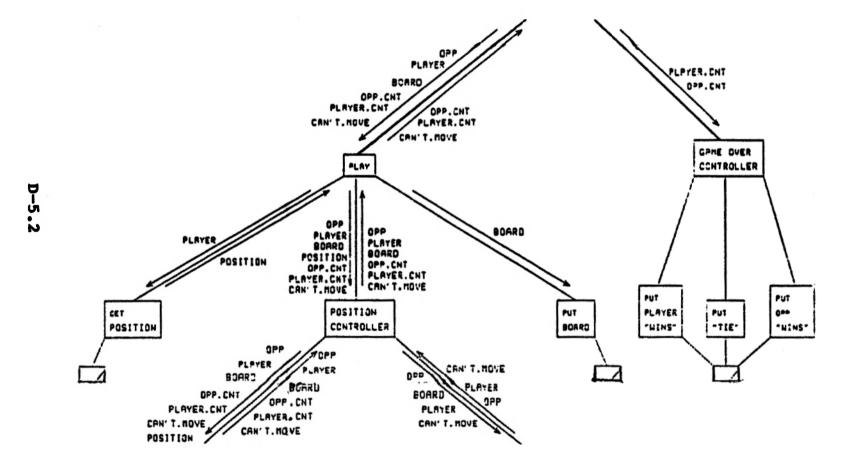
D-3.2

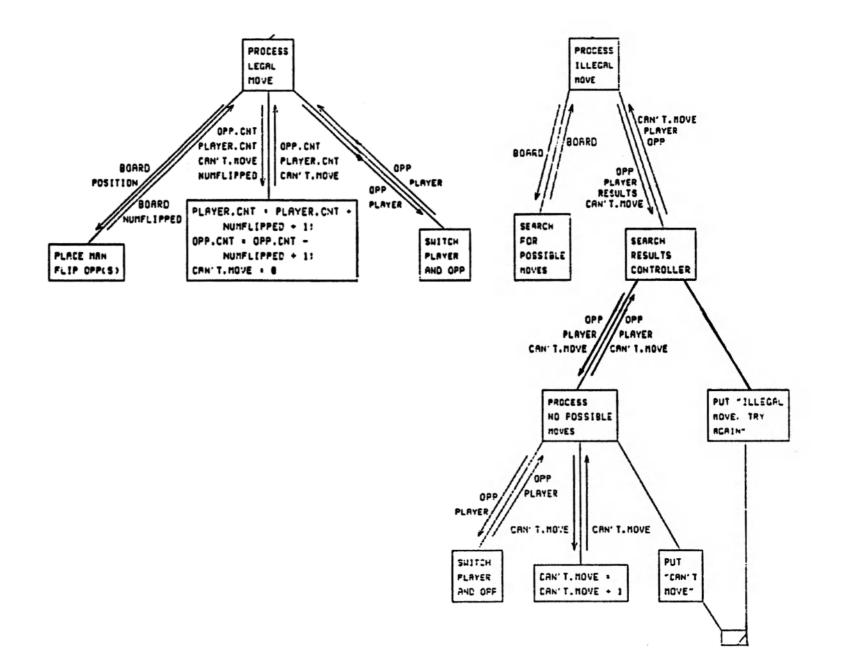


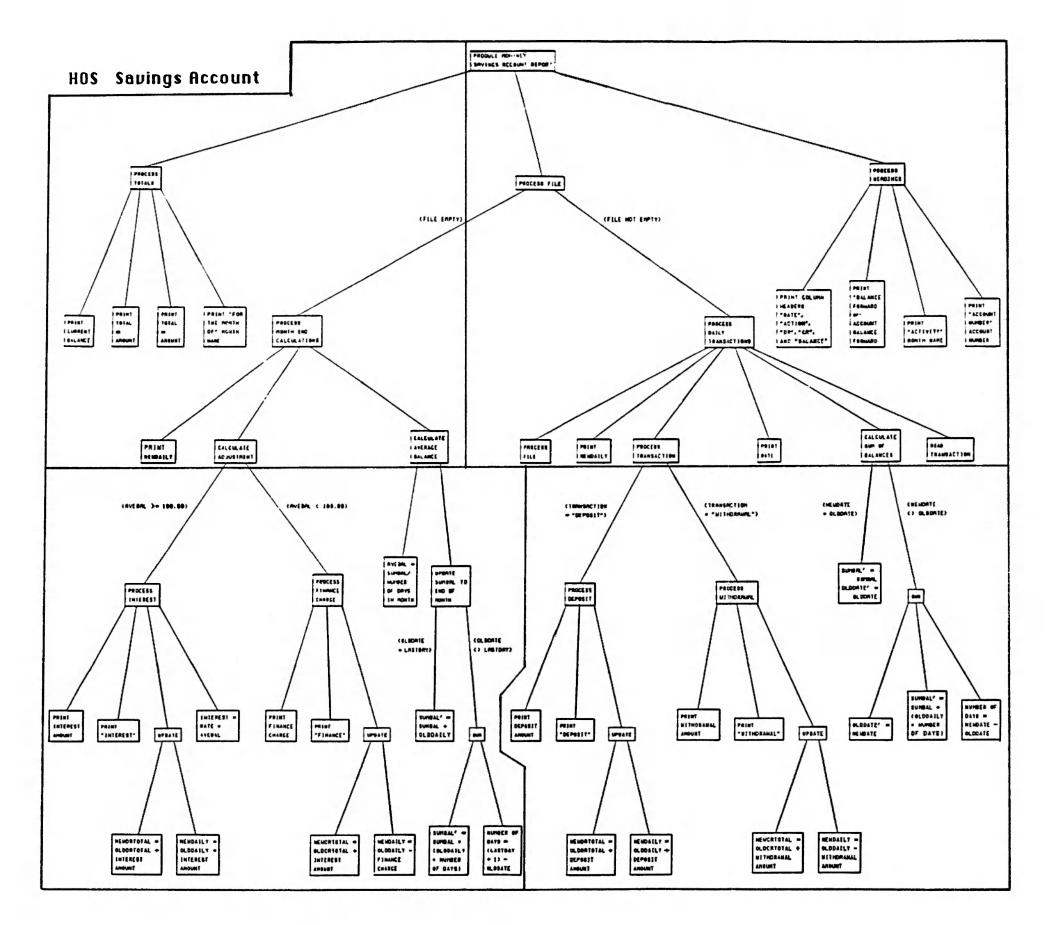
Yourdon-Constantine Othello



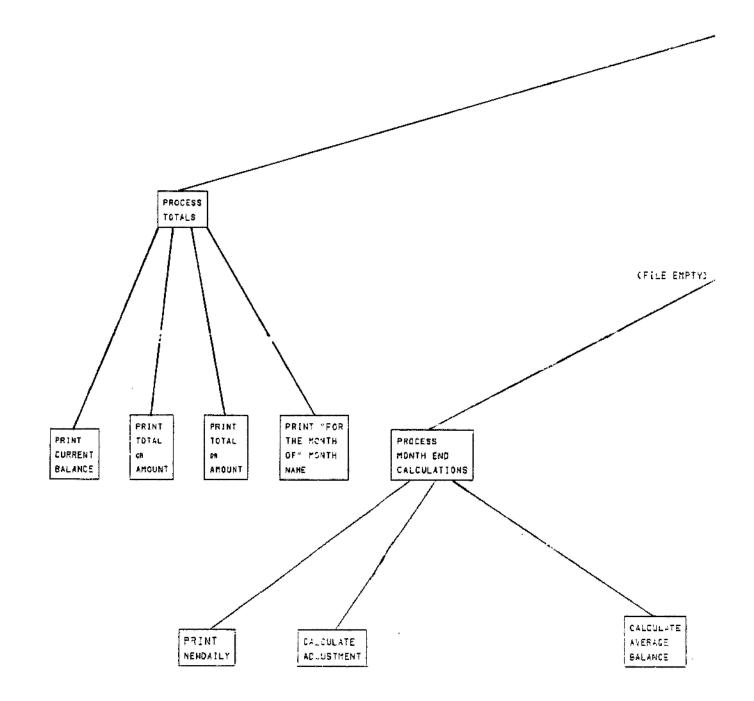


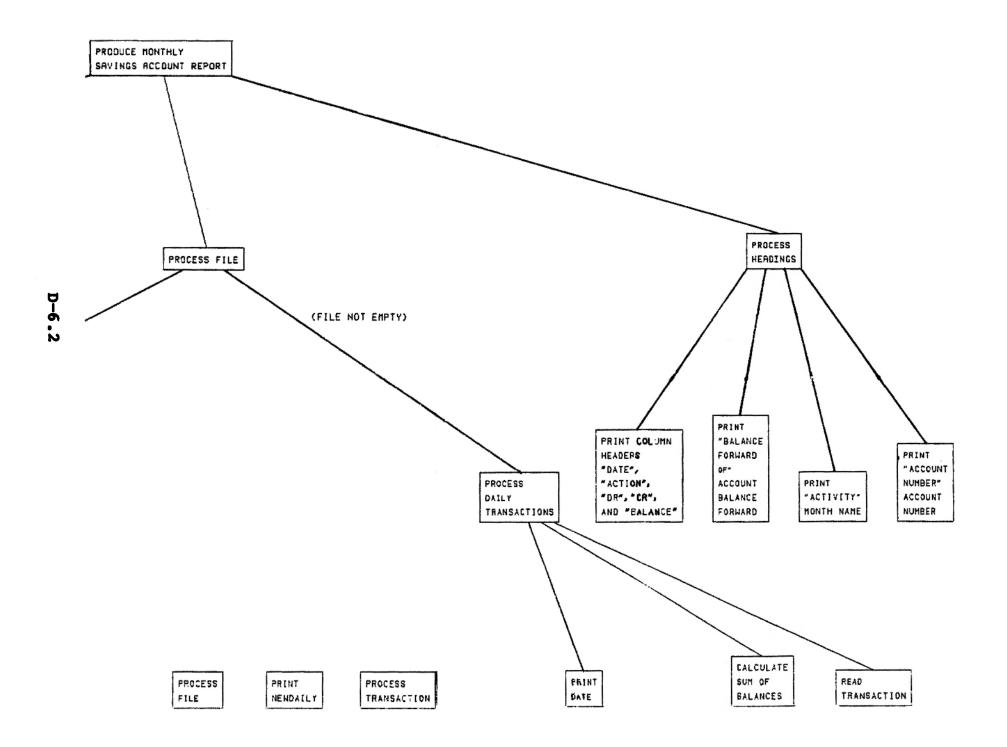


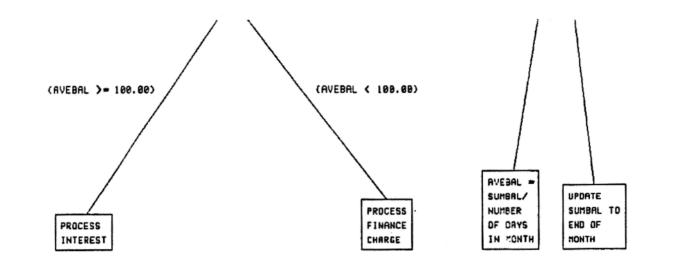




D-6

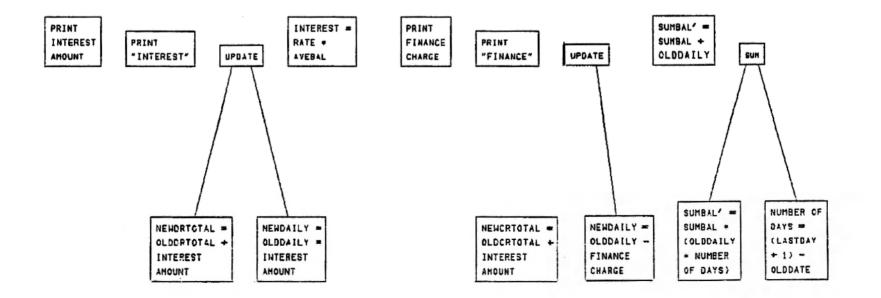


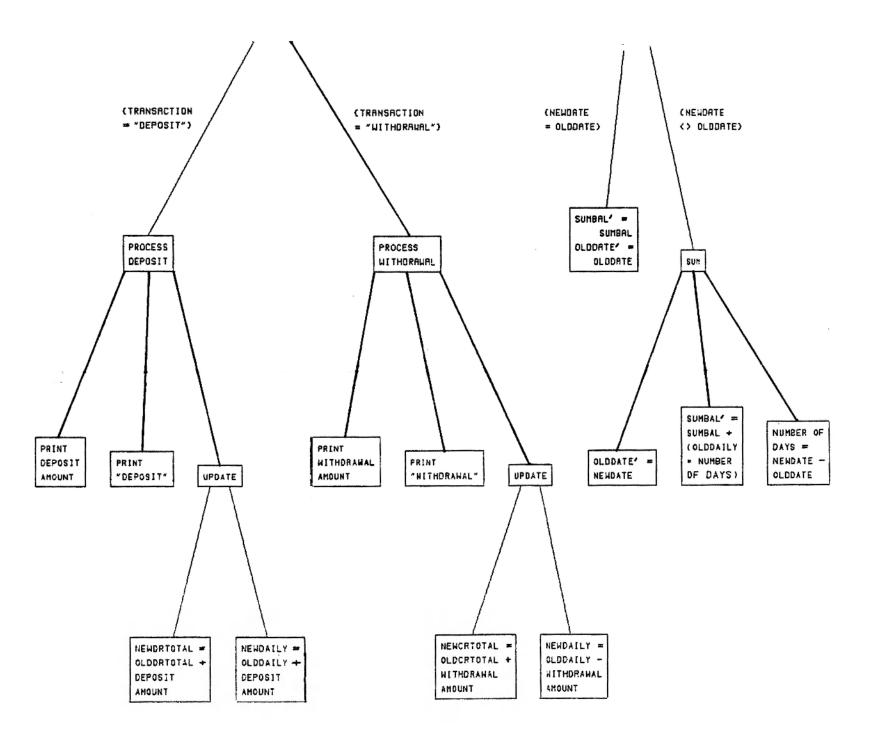




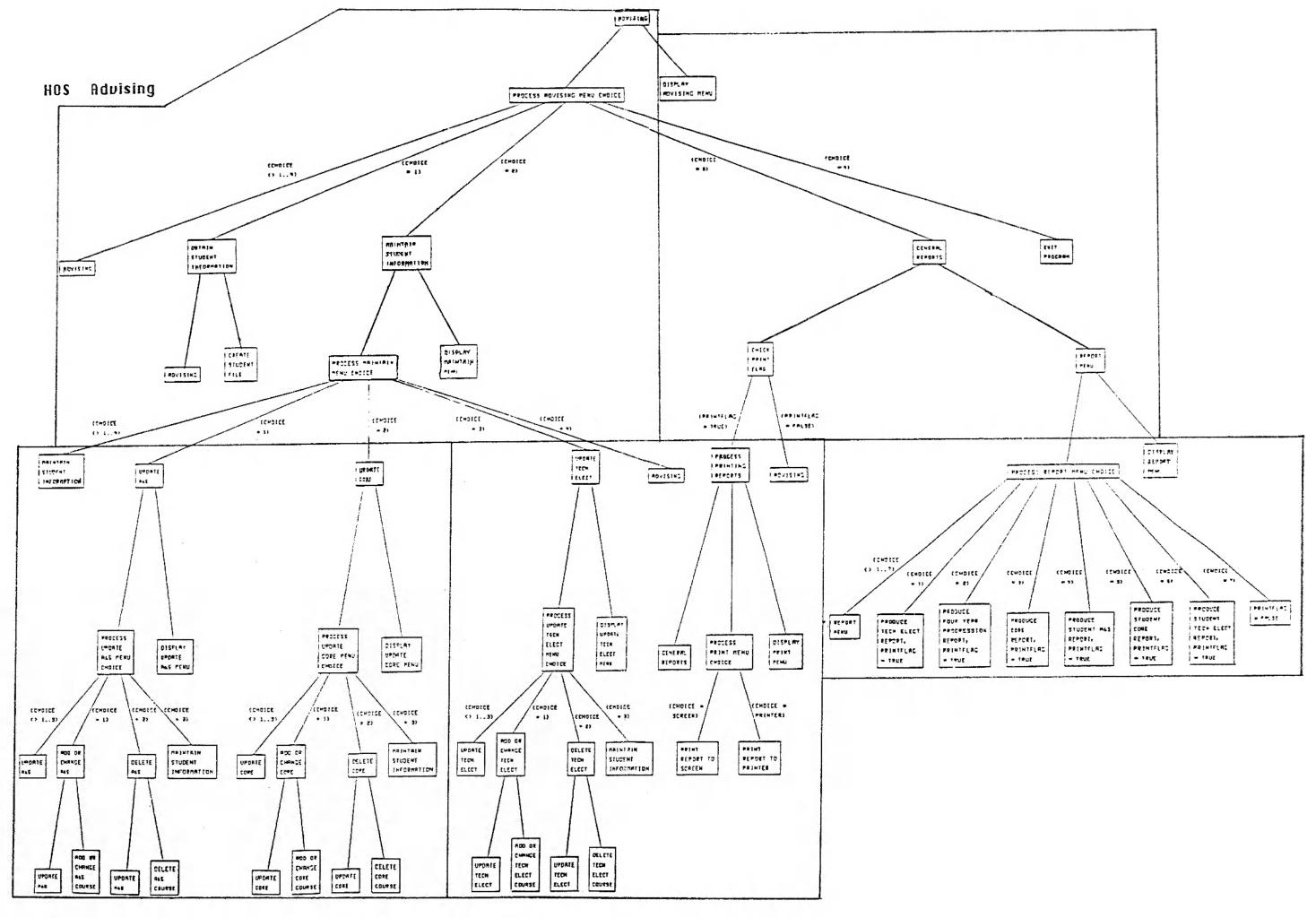




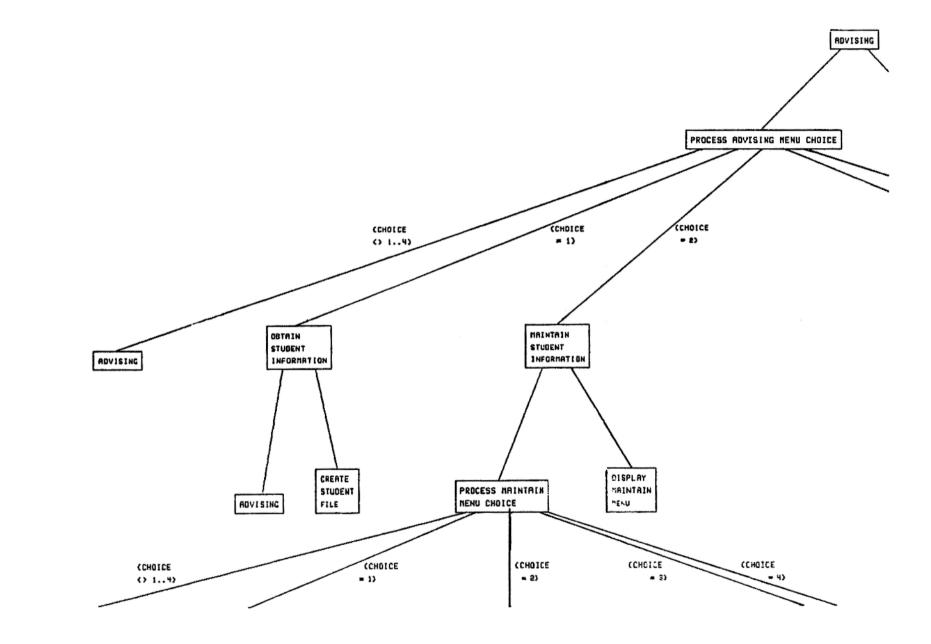


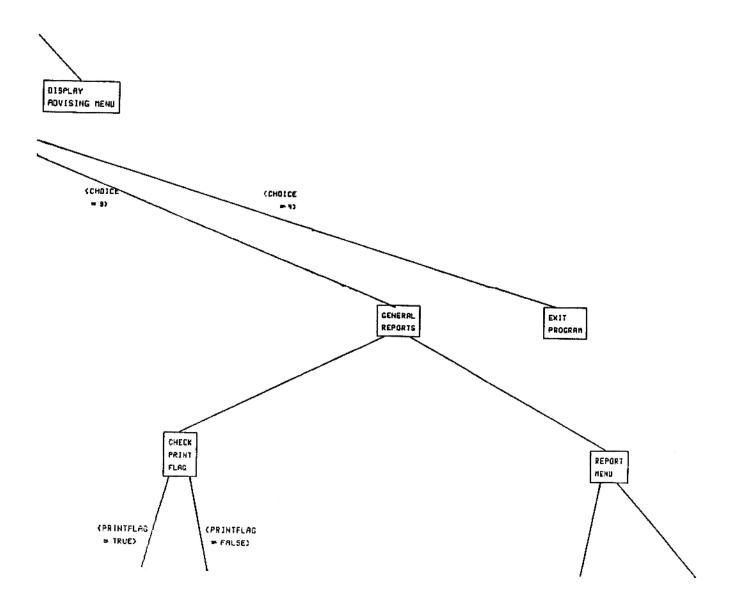


D-6.4

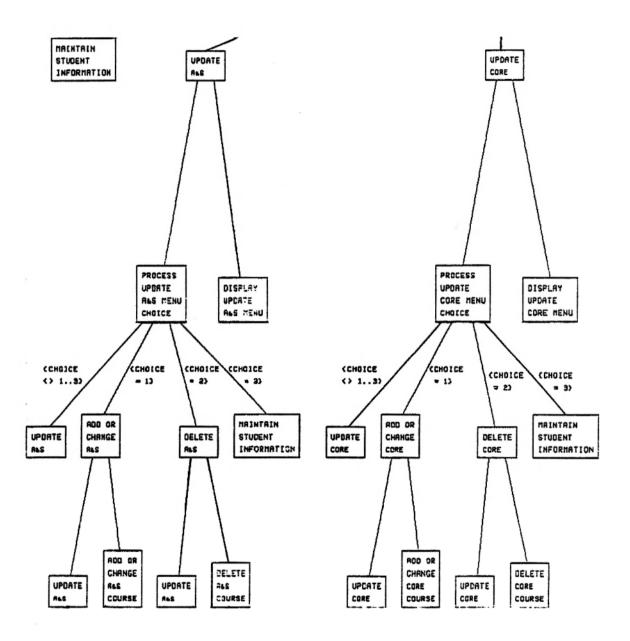


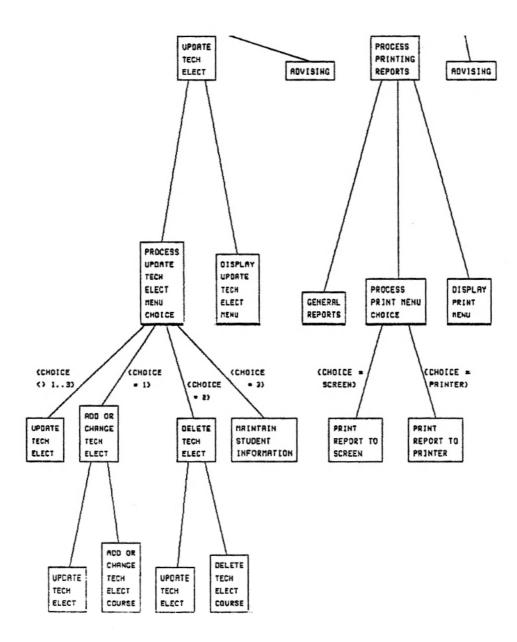
D-7

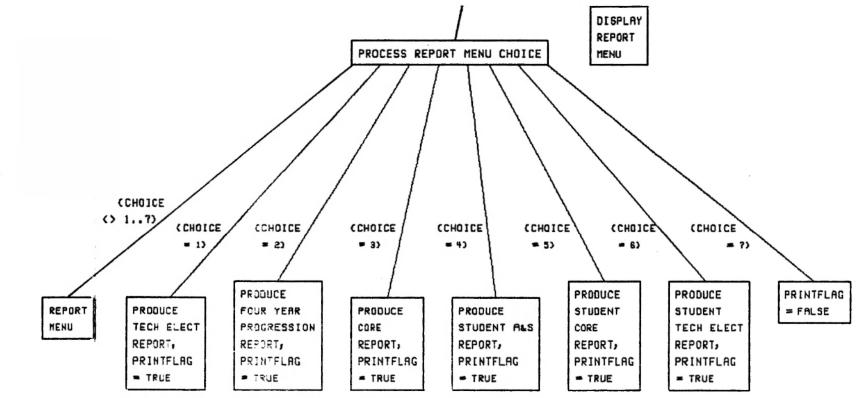


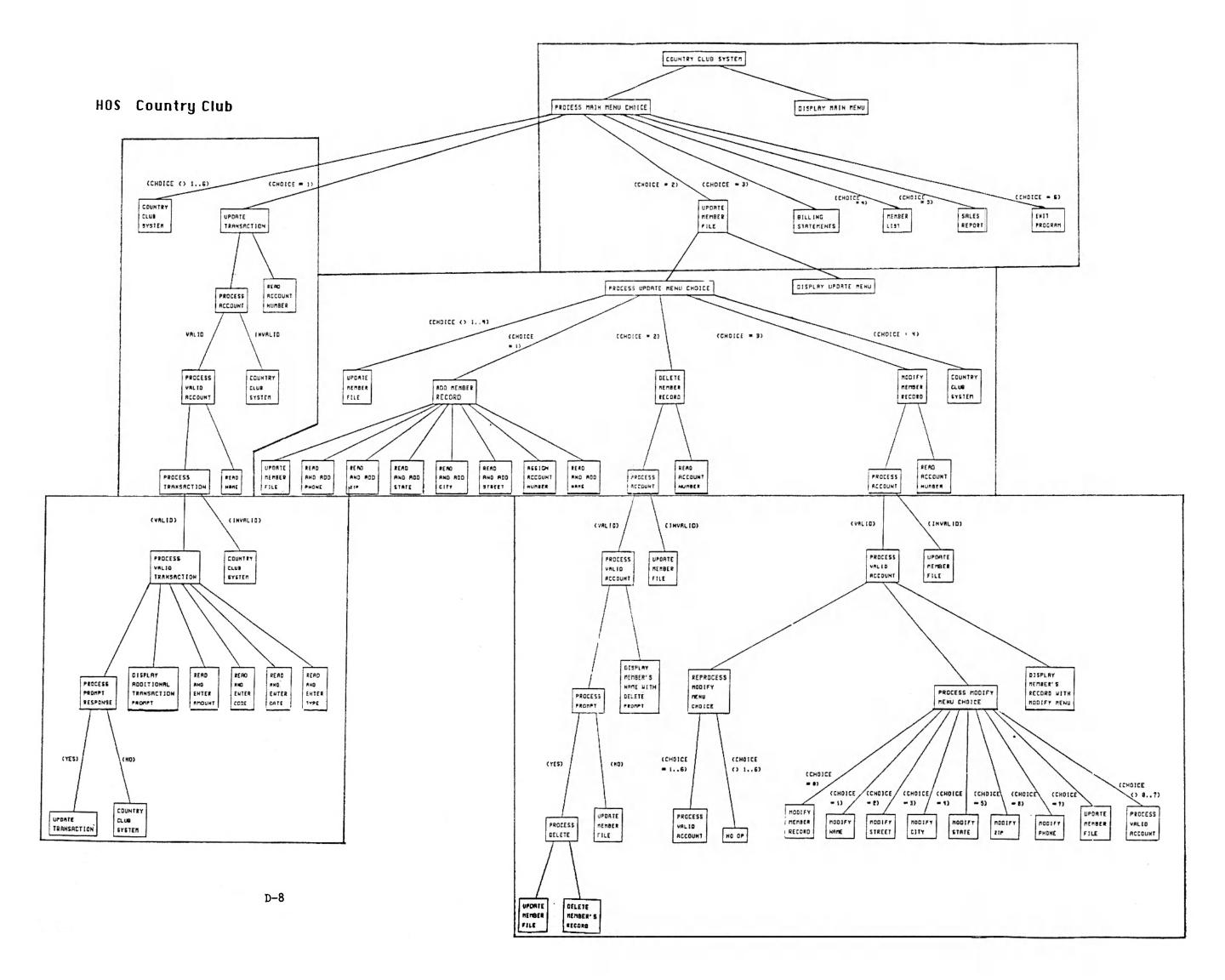


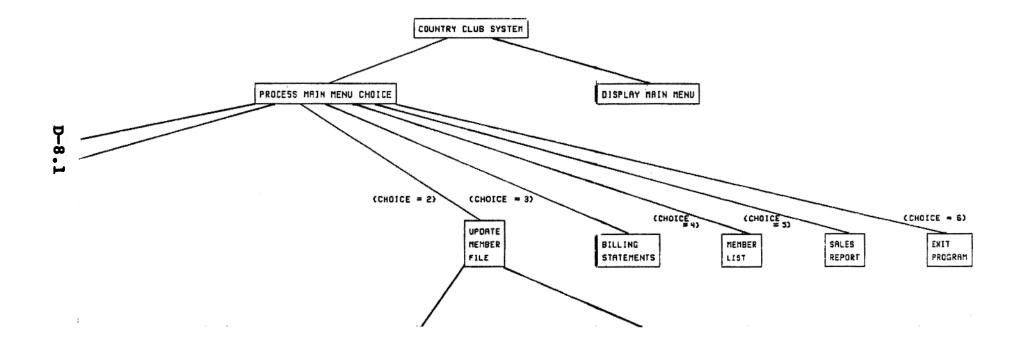
D-7.2

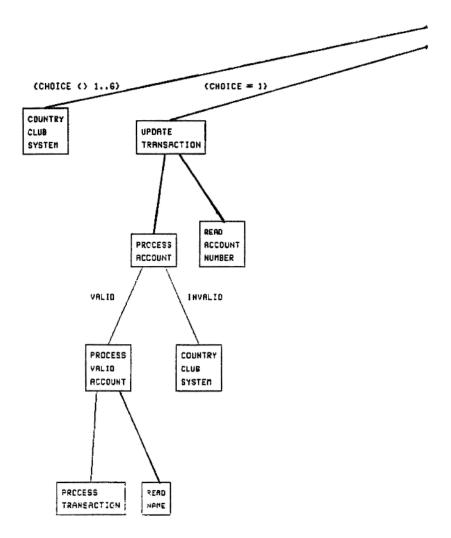


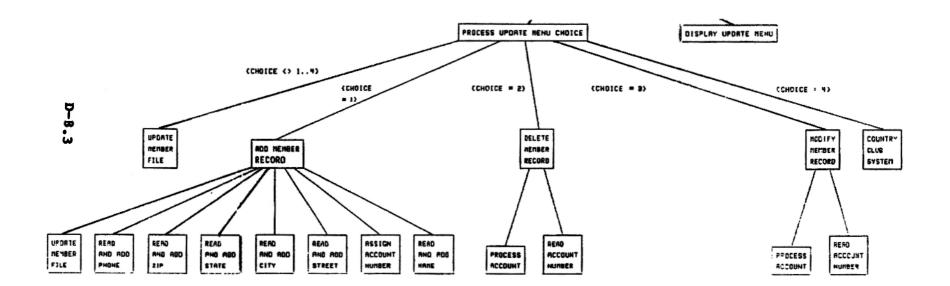


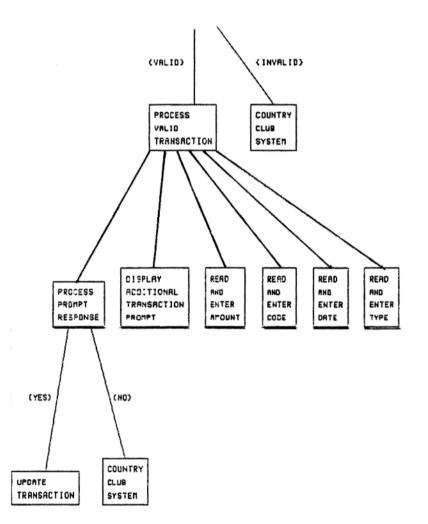




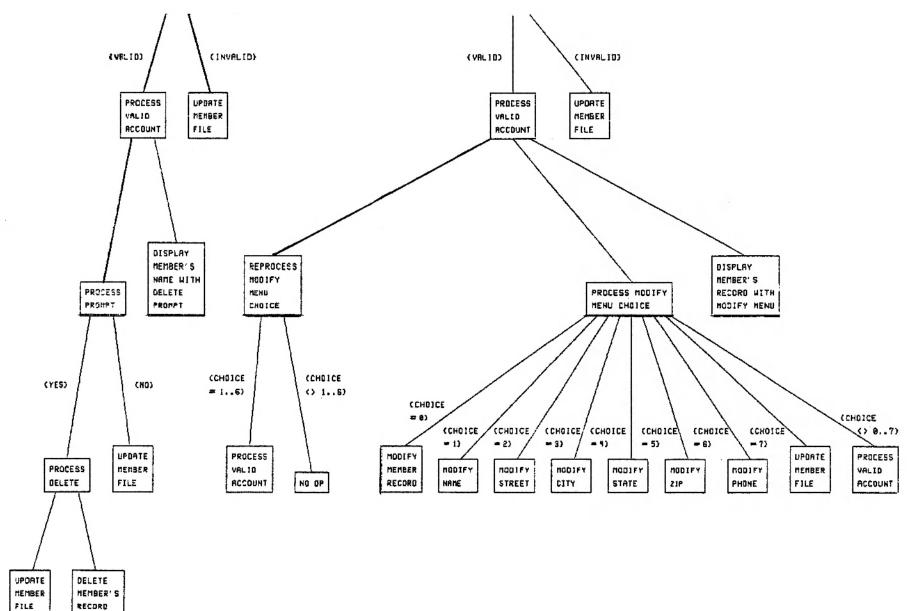




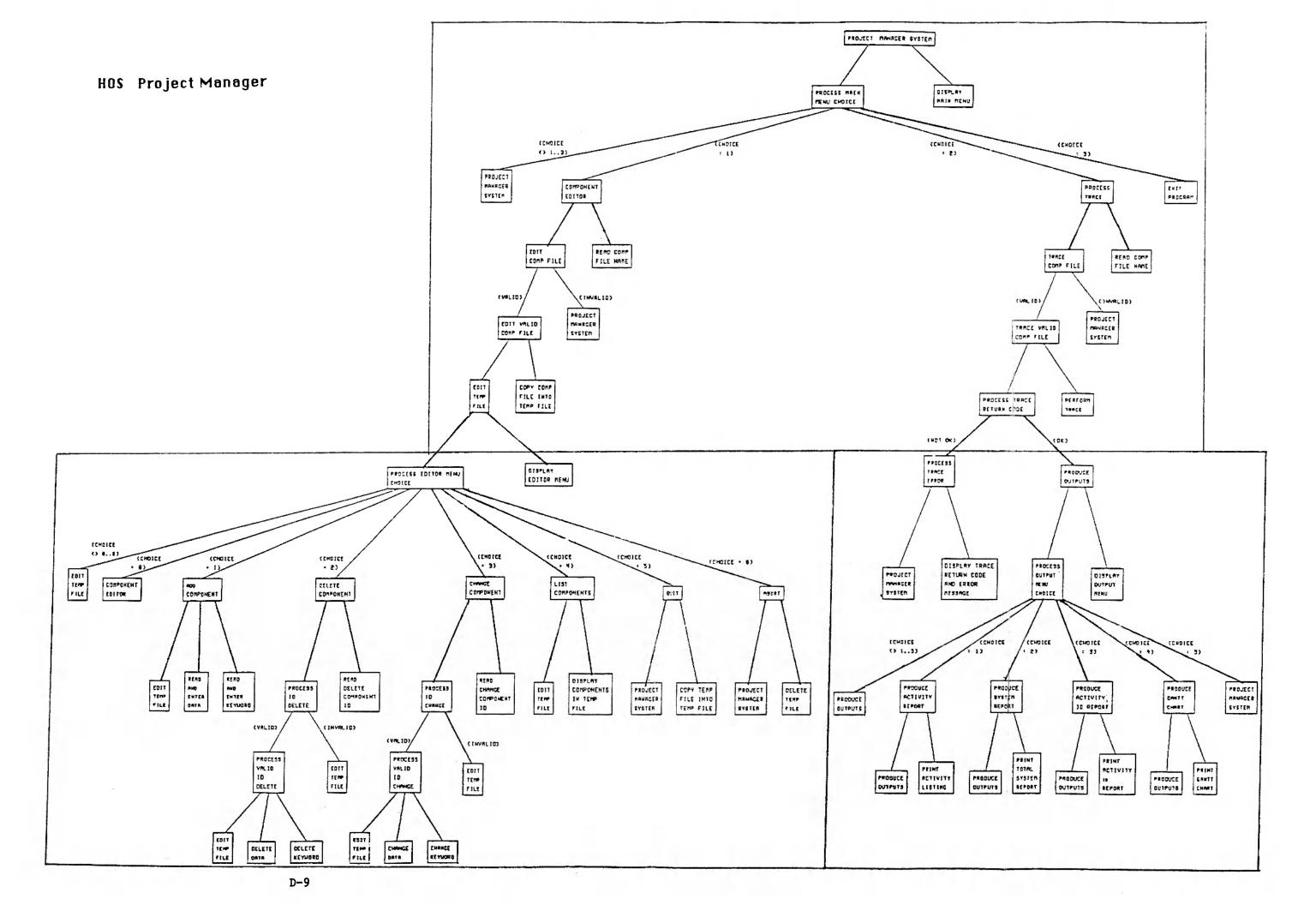


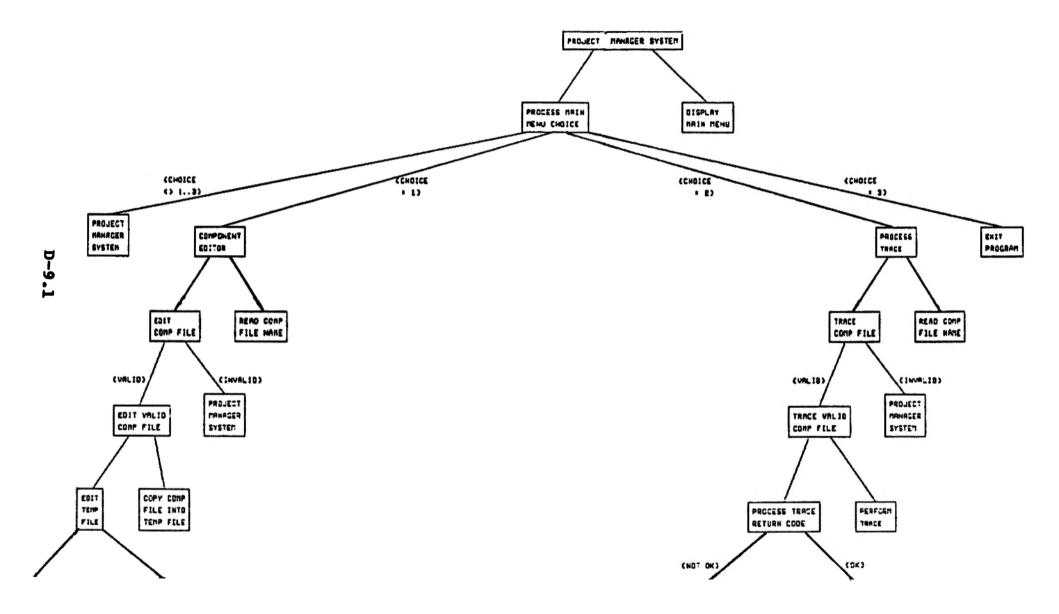


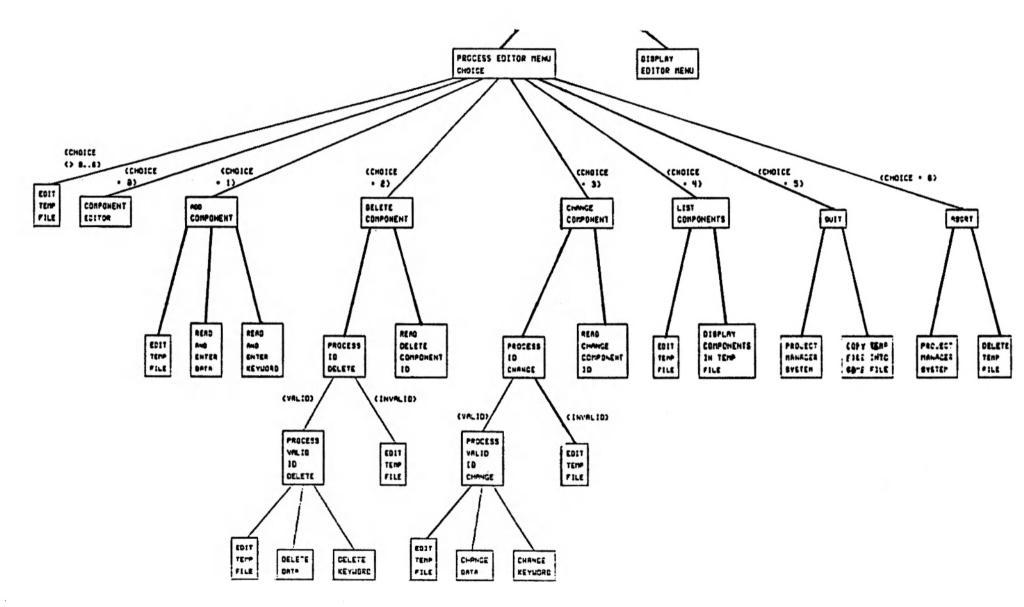
D-8.4



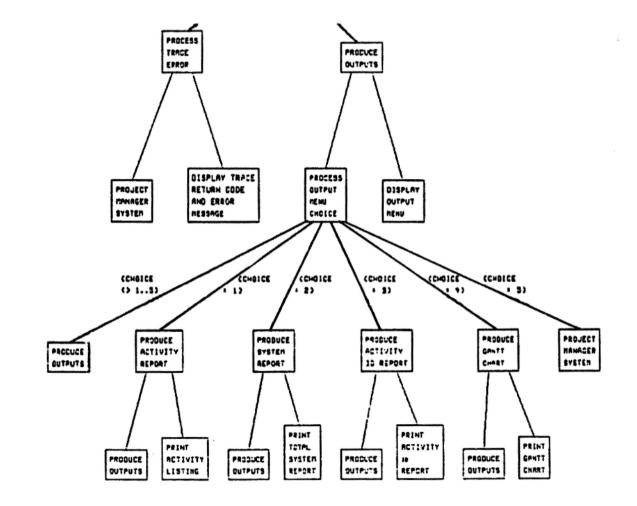
D-8.5





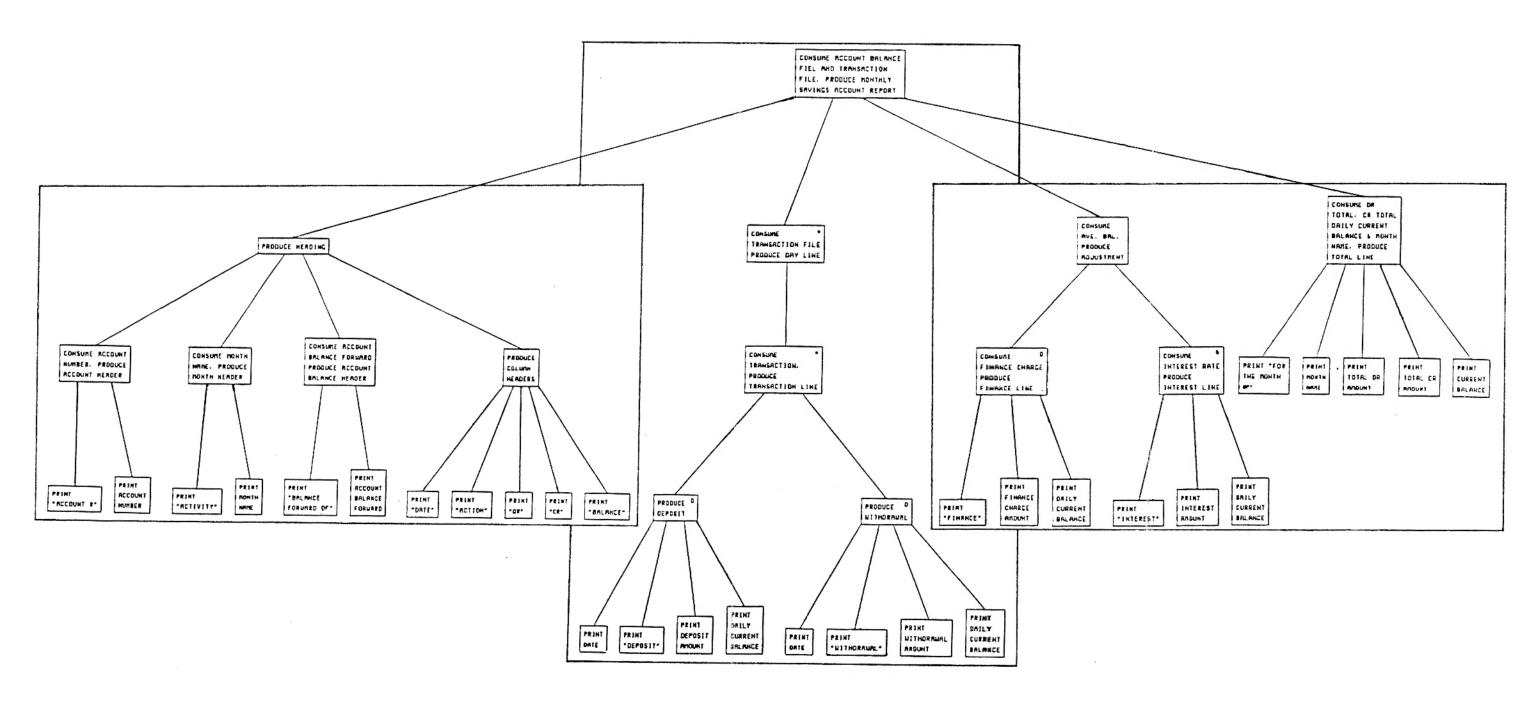


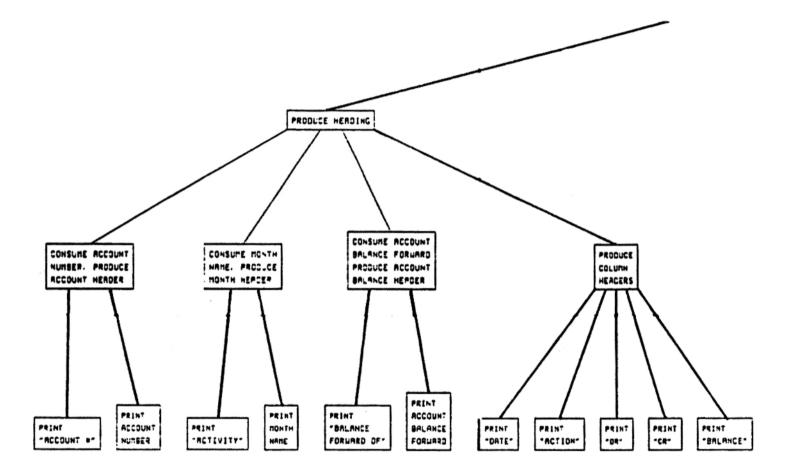
D-9.2

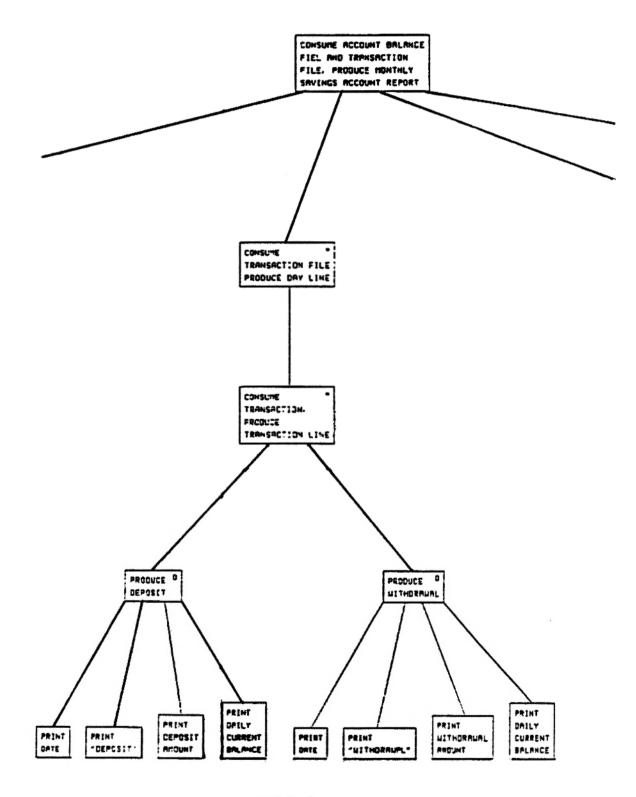


D-9.3

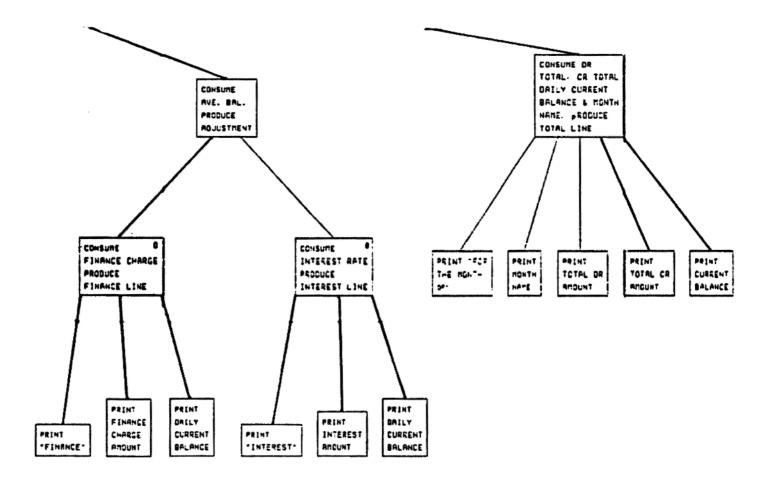
Jackson Savings Account

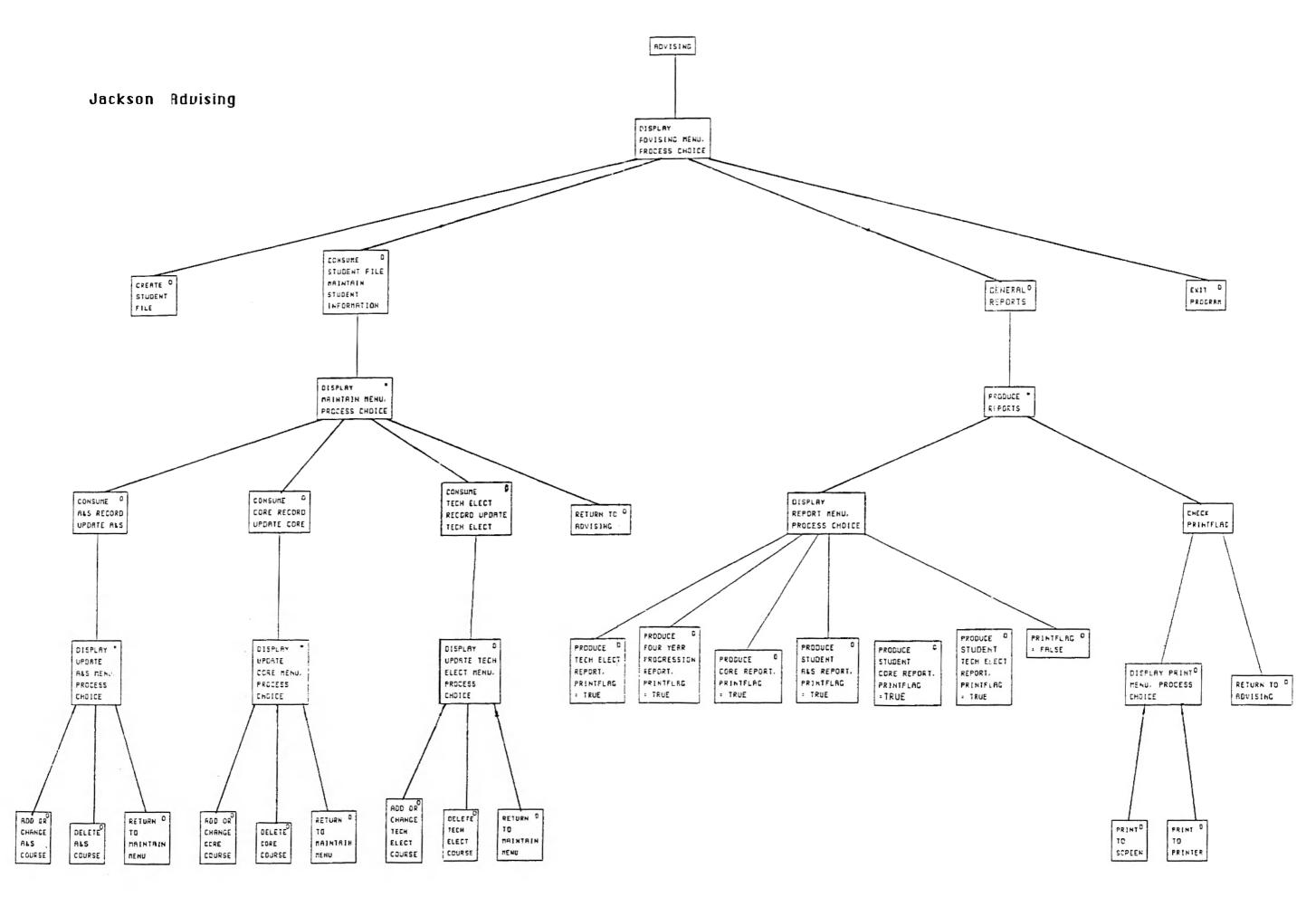




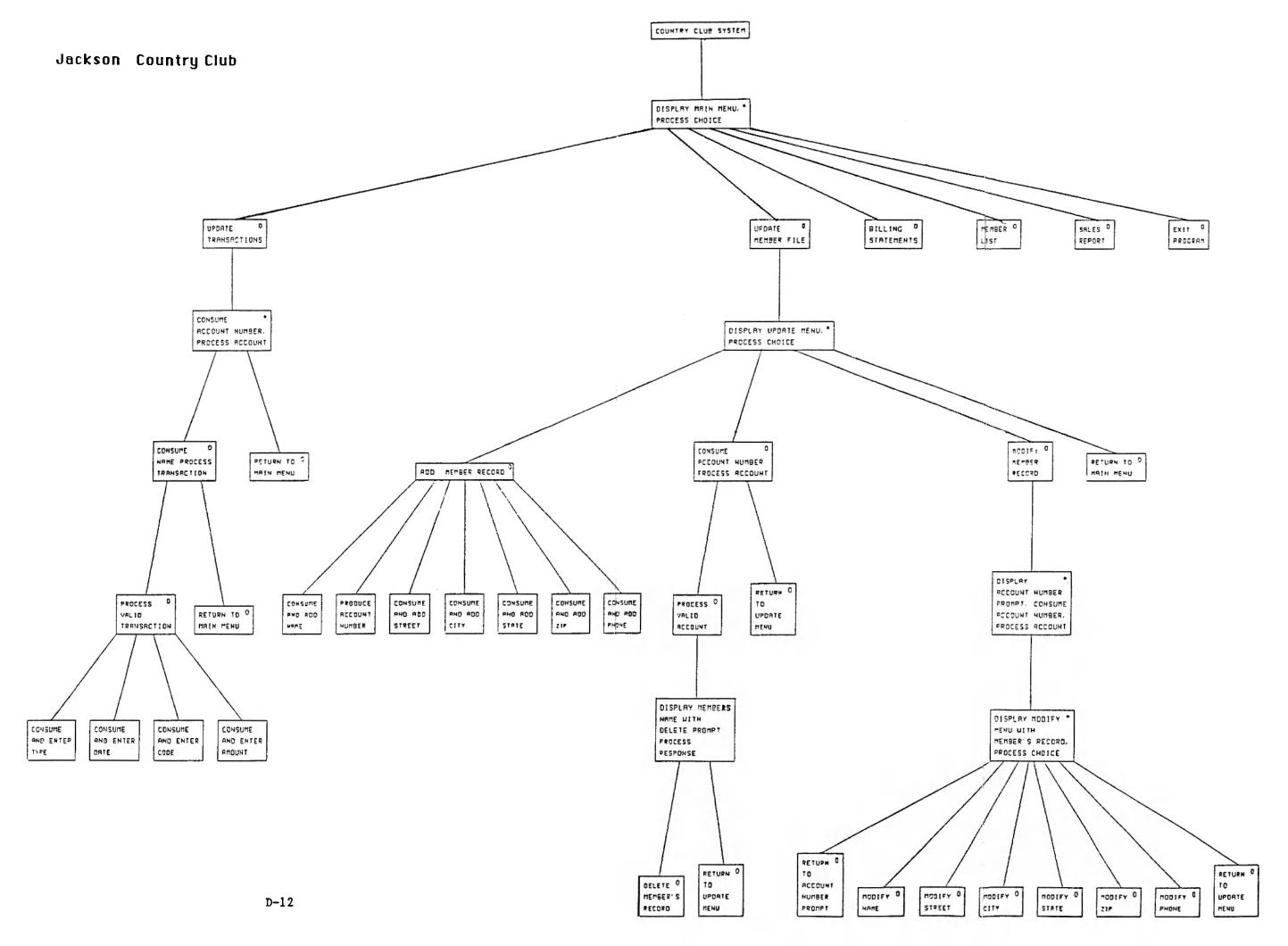


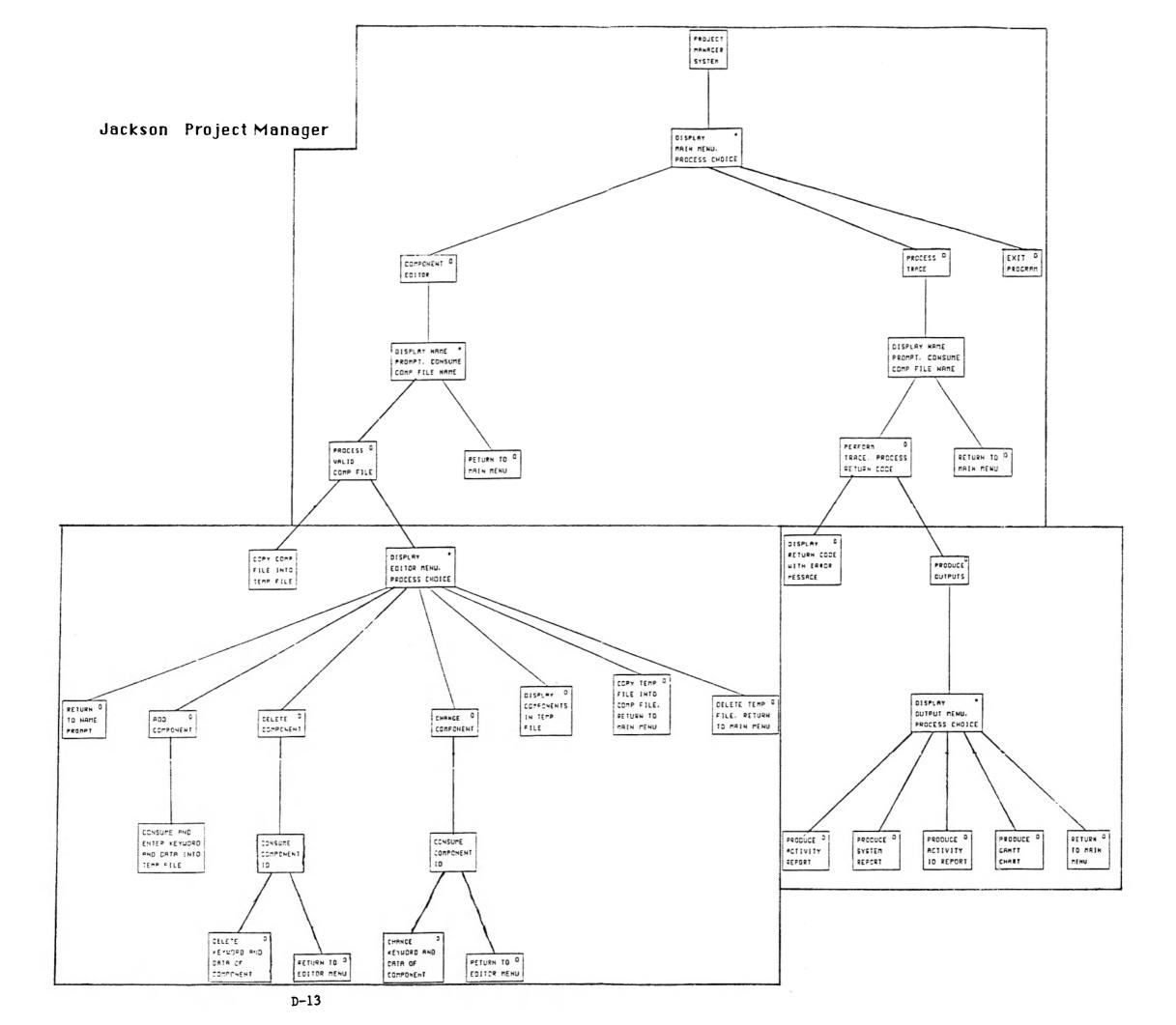
D-10.2

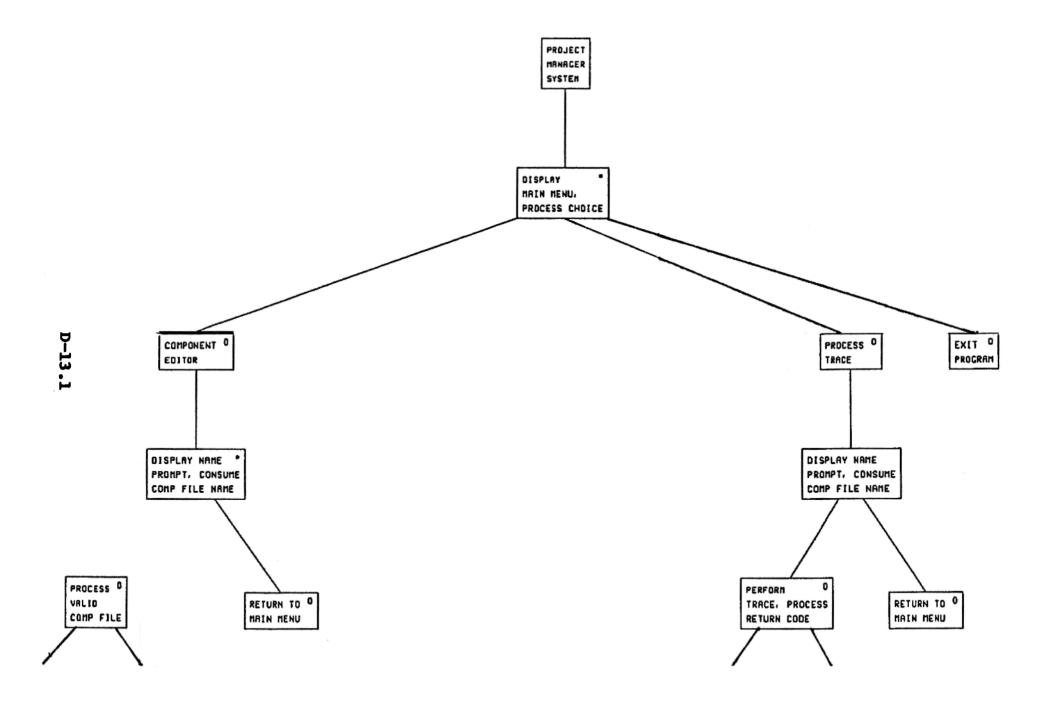


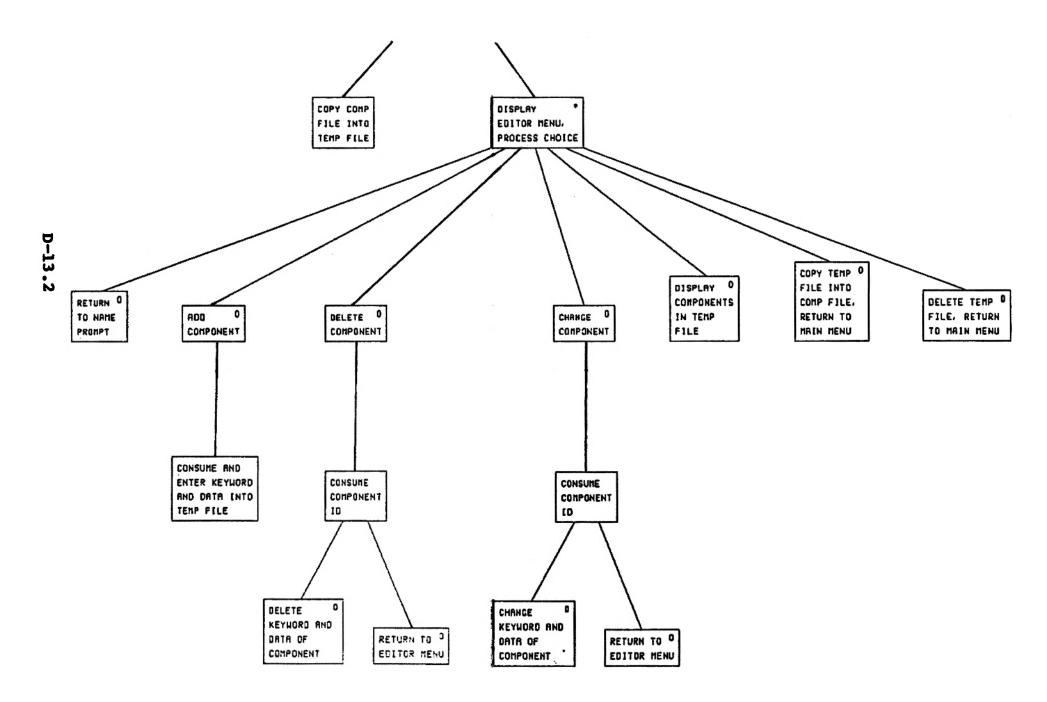


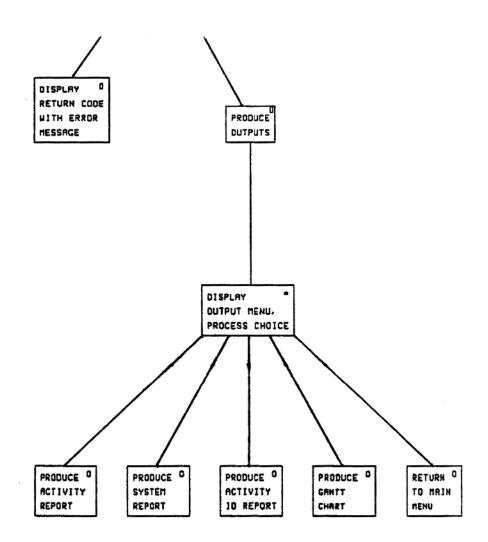
D-11











Warnier-Orr Savings Account

	r								
	OPEN INPUT; TRANSACTION FILE; Account balance file								
	GET FIRST TRANSACTION FILE								
	PRINT "ACCOUNT #" ACCOUNT NUMBER Get Account Balance Forward Move Account Balance Forward								
	1	TO DALL	r						
	2.0	GET INTEREST RATE							
	HERDING	PRINT -ACTIVITY- Homth Name							
	-	"BRLANCE FORLARD OF"							
		"DATE" "ACTION" "DR" "CR" "BALANCE"							
		SET END OF DAYS TO FALSE							
		PRINT DATE							
			ſ.	ſ					
			SUM	NUMBER OF DAYS : NEW ONTE - OLD DATE					
		sun of	(8.1372	SUMMAL : OLD SUMMAL + (OLD DAILY + HUNSER OF DAYS)					
		BALANCES	{ •	LOLD DATE . NEN DATE					
		and were	UPDATE	SUMERL . OLD SUMBAL					
			(8. 1 778	OLD BATE . NEU DATE					
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•	047	1	F.	[
	(1.0)71	1	OEPOSIT	ADD DEPOSIT ANOUNT TO DAILY					
RENTHLY			(8.1)74	A PRINT "DEPOSIT" DEPOSIT ANOUNT ADD DEPOSIT AMOUNT TO DE TOTAL					
SAV INGS	1	TRANSACTION	₹						
ACCOUNT				SUBTRACT LITHORAWAL AMOUNT FROM DAILY					
REPORT			ULTHORAUAL	PRINT "HITHORAWAL" WETHORAWAL ANOUNT					
				ADD WITHDRAWAL AMOUNT TO CR TOTAL					
		PRINT DAILY							
		CALCULATE	NUTRER OF	DAYS = (LAST DAY + 1) - OLD DATE					
		AVERAGE	LD SUMBAL + (OLD DAILY + NUMBER OF DAYS)						
		BALANCE	AVERAL . SUMBAL " NUMBER OF DAYS IN MONTH						
			7	-					
	MQMTH .			SUBTRACT FINANCE CHARGE FROM MONTHLY BALANCE					
			FINANCE	PRINT "FINANCE CHARGE" FINANCE CHARGE AMOUNT					
		1	(8.1)76	ROD FEMANCE CHARGE TO CR TOTAL					
	-	ABJUSTRENTS	↓●	Č					
				NULTIPLY AVERAGE BALANCE BY INTEREST RATE					
			INTEREST	J ROG INTEREST AMOUNT TO MONTHLY BALANCE					
			(8.1)77	ADD INTEREST ANOUNT TO DR TOTAL					
		PRINT NONTHLY BALANCE							
		4							
		PRINT "FOR THE MONTH OF" NONTH MANE DR TATAL							
	TOTALS 4								
		CR TOTAL							
	HONTHLY BALANCE								
	CLOSE THE	CLOSE TRANSACTION FILE							
	ACCOUNT BRUANCE FILE								
	-								
	7L - ENO 0								
		ATE <> OLD DAT							
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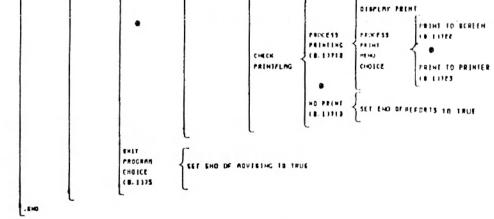
74 - DEPOSIT TRANSACTION

75 - WITHORAWAL TRANSACTION 75 - FINANCE - AVERAGE BALANCE (\$100.00 77 - INTEREST - AVERAGE BALANCE): \$100.00

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TE ROVISING MENU CHOICE . 1	TIS REPORT MENU CHOICE . C
TS ADVISING HENU CHOICE - 2	TIT REPORT NENU CHOICE . 3
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75 ROVIGING MENU CHOICE	718 REPORT MENU CHOICE . 5
TE END OF BALNIASH	TEN REPORT MENU CHOICE
TT END OF REPORTS	TEL REPORT MENU CHOICE . 7
TO MAINTAIN MENU CHOICE . I	722 PRINT MENU CHOICE . 1
2 · JJICHJ UHAN HINTHIAN OF	23 - 3310H) UH HE HU CHOICE - 2
TIS MAINTAIN MENN CHOICE . 3	ILS UPDATE MENU CHOICE . I
TIL MAINTAIN NEW CHOICE . 4	TES UPONIE HENU CHOICE . E
712 PRINIFLAG . TRUE	726 UPORIE MENJ CHOICE + 2
113 PRINIFLAG . FALSE	
TIS END OF UPDATE	



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71 END OF ADVISING 72 ADVISING MENU CHOICE - 1 73 ADVISING MENU CHOICE - 2 74 ADVISING MENU CHOICE - 3 75 ADVISING MENU CHOICE - 4 76 END OF MAINTAIN 77 END OF MENUTAIN 77 END OF MENUTAIN 78 MAINTAIN MENU CHOICE - 1 79 MAINTAIN MENU CHOICE - 2 710 MAINTAIN MENU CHOICE - 3 711 MAINTAIN MENU CHOICE - 3 711 MAINTAIN MENU CHOICE - 4 712 PRINTFLAG - TRUE 713 PRINTFLAG - FALSE 714 END OF UPDATE

 ?16 REPORT MENU CHOICE : 2

 ?11 REPORT MENU CHOICE : 3

 ?12 REPORT MENU CHOICE : 4

 ?19 REPORT MENU CHOICE : 5

 ?20 REPORT MENU CHOICE : 5

 ?20 REPORT MENU CHOICE : 6

 ?21 REPORT MENU CHOICE : 6

 ?22 PRINT MENU CHOICE : 7

 ?22 PRINT MENU CHOICE : 1

 ?23 PRINT MENU CHOICE : 2

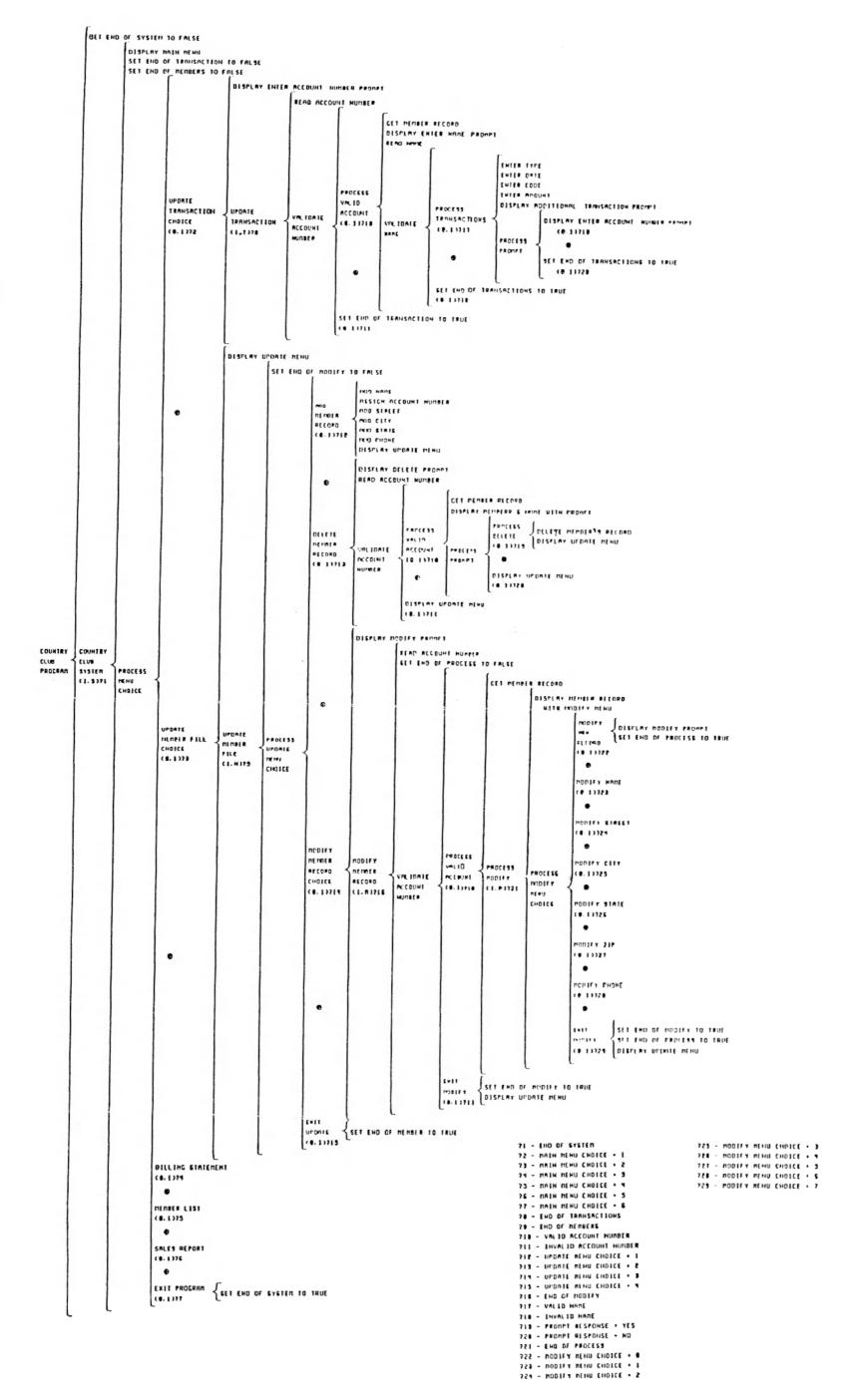
 ?24 UPOATE MENU CHOICE : 1

 ?25 UPOATE MENU CHOICE : 2

 ?26 UPOATE MENU CHOICE : 3

715 REPORT MENU CHOICE + 1

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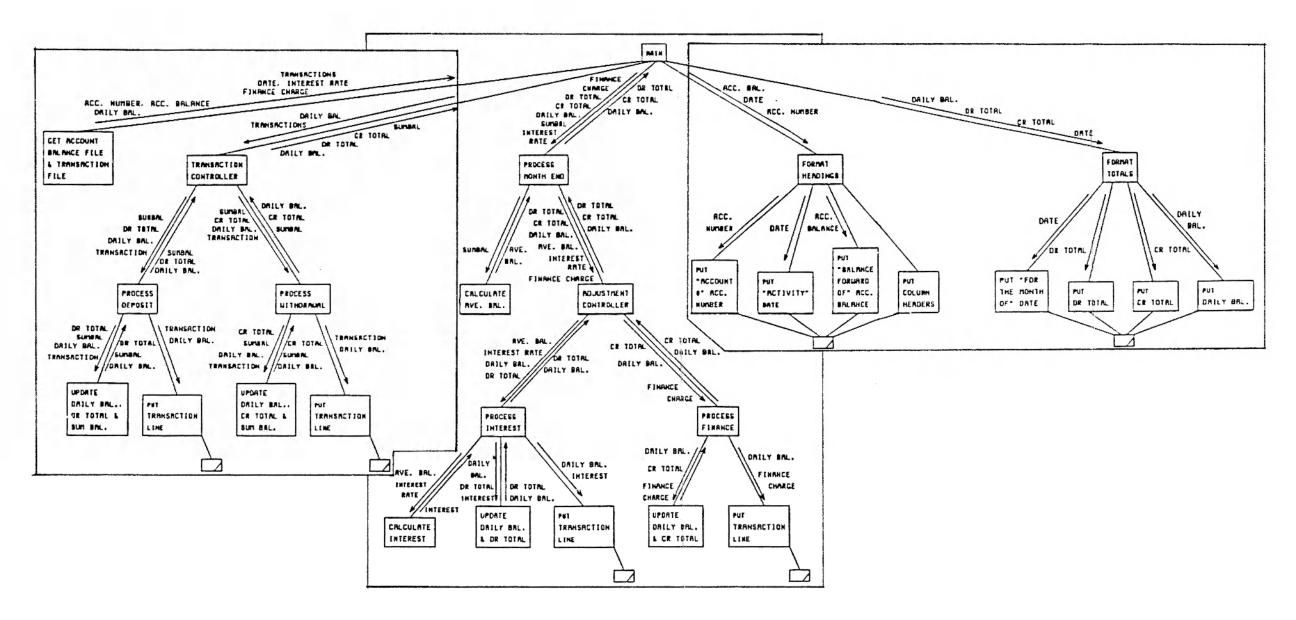
71 - END OF SYSTEM
72 - MAIN MENU CHOICE - 1
73 - MAIN MENU CHOICE = 2
74 - MAIN MENU CHOICE = 3
75 - MAIN MENU CHOICE = 4
76 - MAIN MENU CHOICE - 5
77 - MAIN MENU CHOICE - 6
78 - END OF TRANSACTIONS
79 - END OF MEMBERS
718 - VALID ACCOUNT NUMBER
711 - INVALID ACCOUNT NUMBER
712 - UPDATE MENU CHOICE = 1
713 - UPDATE MENU CHOICE = 2
714 - UPDATE MENU CHOICE = 3
715 - UPDATE MENU CHOICE - 4
716 - END OF MODIFY
717 - VALID NAME
718 - INVALID NAME
719 - PROMPT RESPONSE = YES
728 - PROMPT RESPONSE . NO
721 - END OF PROCESS
722 - MODIFY MENU CHOICE = 0
723 - MODIFY MENU CHOICE = 1
254 - MODIFY MENU CHOICE - 5

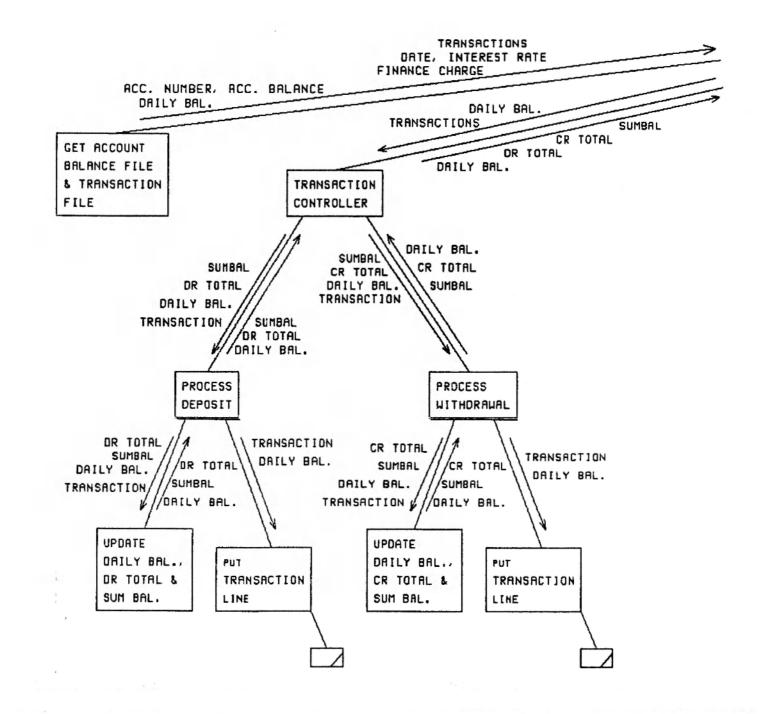
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256	-	MODIFY	MENU	CHOICE	=	4
727	-	MODIFY	MENU	CHOICE	z	5
728	-	MODIFY	MENU	CHOICE	:	6
258	-	MODIFY	MENU	CHOICE		7

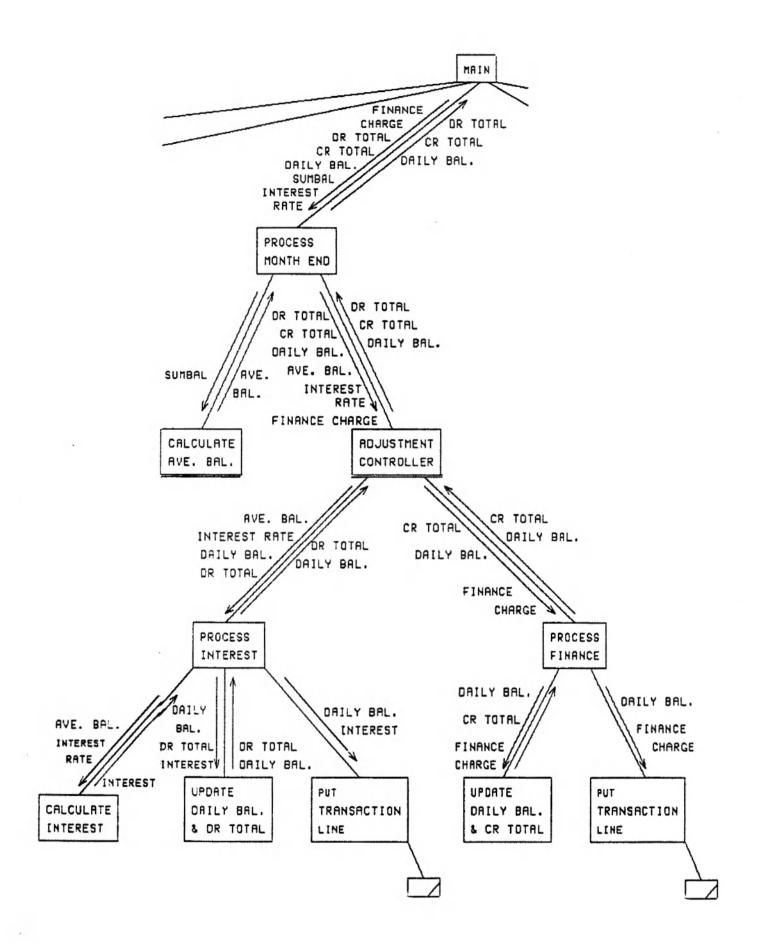
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		OUTPUTS T							
			READ CON	FILE MARE					
							O TEMP FILE		
					SETEND	ſ	TO FALSE		
								SET FHO OF EDIT TEMP TO TRUE	
							COND FILE		
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						1	COMPONENT	REND RUD ENIER KEYLORD	
							4	READ COMP 10	
								PROCESS OFLETE KE-WORD	
							CELETE	PENCISE CO 1924	
							C.N. 13214	CONP TD 10 END OF CELEIE	
	COMPONENT			EDIT	£011	PPOCESS		(* 1) 1 52	
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							9	END OF CHANGE	
							LIST		
				Ð			CONPONENTS	DISPLAY COMPONENTS IN TEMP FILE	
PROJECT							0 911	COPY TEMP FILE INTO COMP FILE	
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								DELETE TENP FILE	
							(9.1))18	SET END OF EDITOR TO TPUE SET END OF EDIT TEMP TO TPUE	
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	B								
		READ CONF	FILE NAME	r					
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					(0.1)79	F	DISPLAY OUT	PUT MENU	25 LIBIN NEAN ENGICE - 25 Eag of Annaces
								PRINT ACTIVITY REPOPT	71 - MAIN MENU CHOICE -
			TRACE		Ð			(8.1)?19 ®	75 EVELO CONFELLE HAR
	PROCESS	PROCESS	VALID COMP	PROCESS				PRINT SYSTEM REPORT	77 - INVALID COMP FILE N 18 END OF FOLT TEMP
	(0.1.)73	FILE	FILE	IRACE .		PPODUCE.	FRACESS	.B (0'1)350	210 IRACE HOL GK
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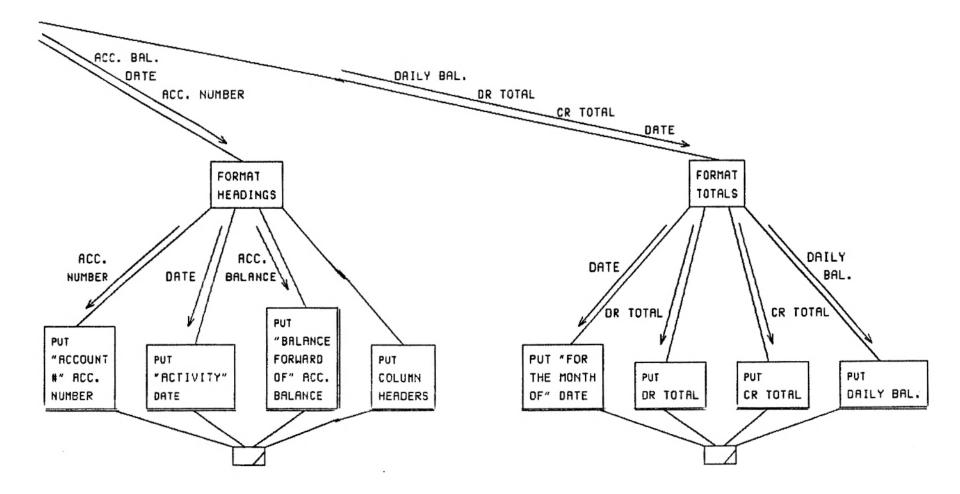
71 - ENG OF MANAGER 72 - MAIN MENU CHOICE : 1 73 - MAIN MENU CHOICE · 2 74 - MAIN MENU CHOICE : 3 75 - END OF EDITOR 76 - VALID COMP FILE MANE ?7 - INVALID COMP FILE NAME 78 - END OF EDIT TEMP 79 - TRACE NOT OK 710 - TRACE OK 711 - END OF OUTPUTS 712 - EDITOR MENU CHOICE . 0 713 - EDITOR MENU CHOICE : 1 714 - EDITOR MENU CHOICE : 2 713 - EDITOR MENU CHOICE : 8 716 - EDITOR MENU CHOICE + 4 717 - EDITOR MENU CHOICE . 5 718 - EDITOR MENU CHOICE : B 719 - OUTPUT MENU CHOICE : 1 728 - OUTPUT MENU CHOICE : 2 ?21 - CUTPUT MENU CHOICE . 3 722 - OUTPUT MENU CHOICE : 4 723 - OUTPUT MENU CHOICE : 5 724 - VALID 10 25 - INVALID 10

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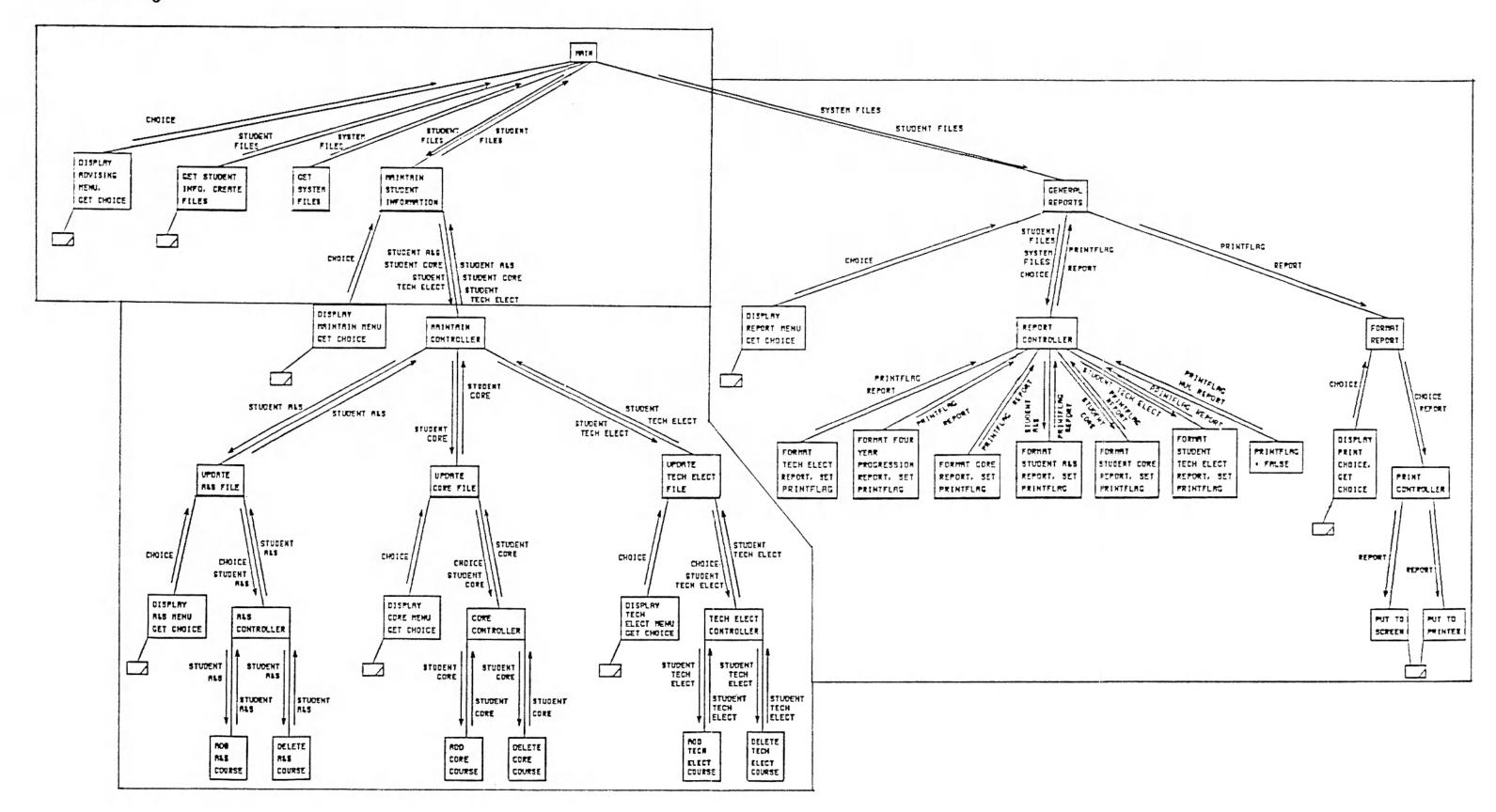


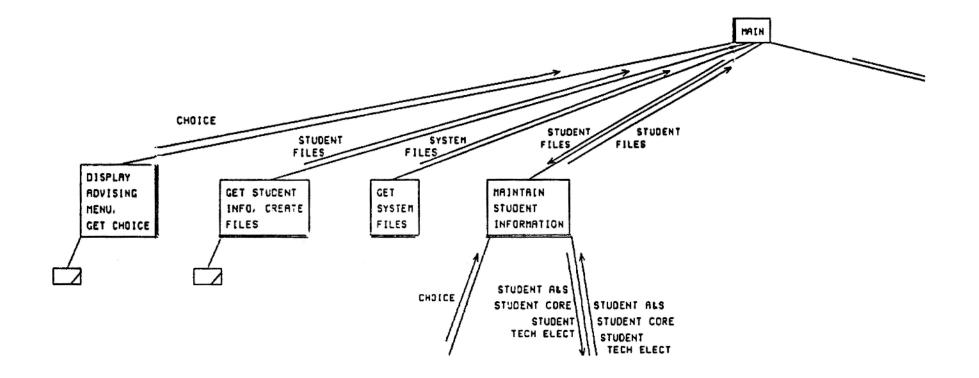


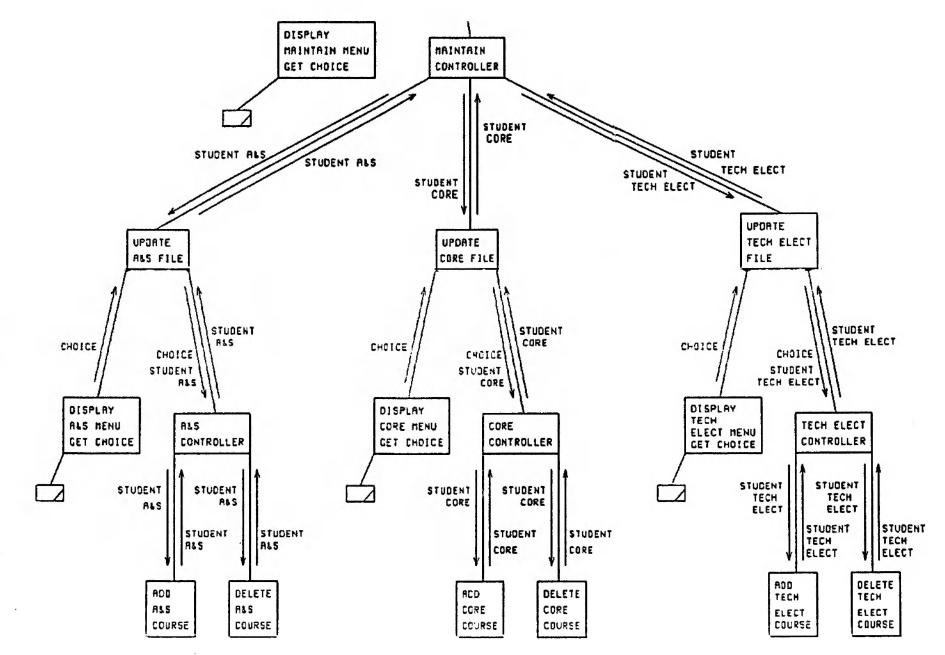




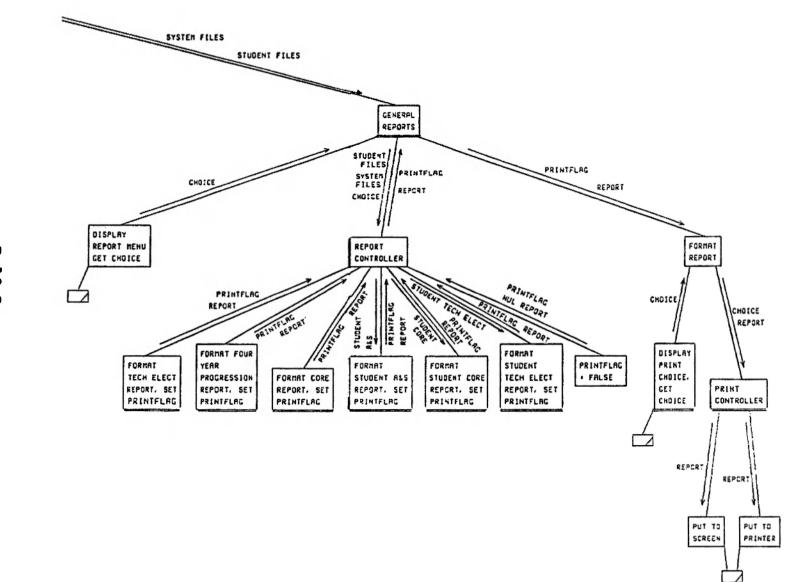
Yourdon-Constantine Advising



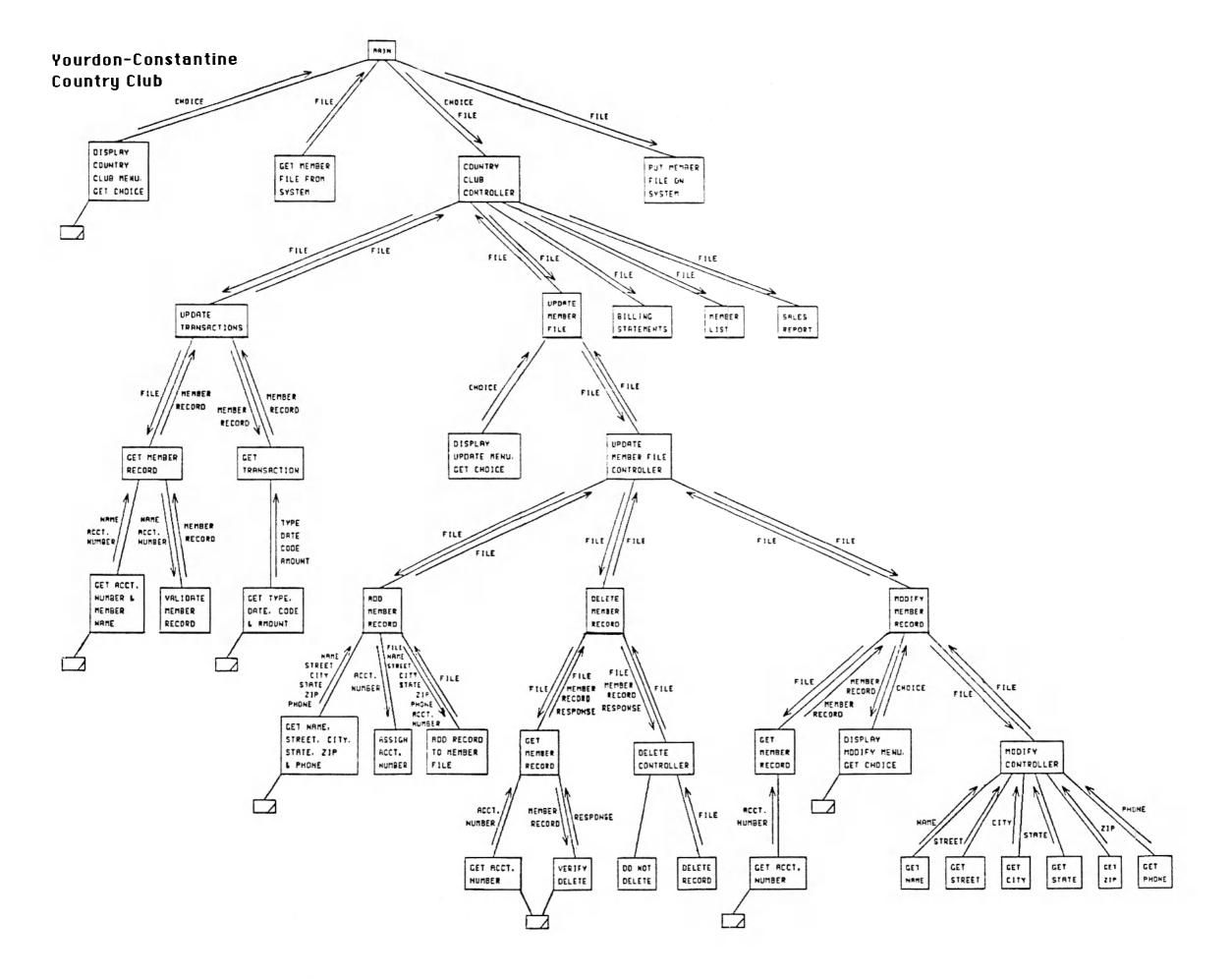




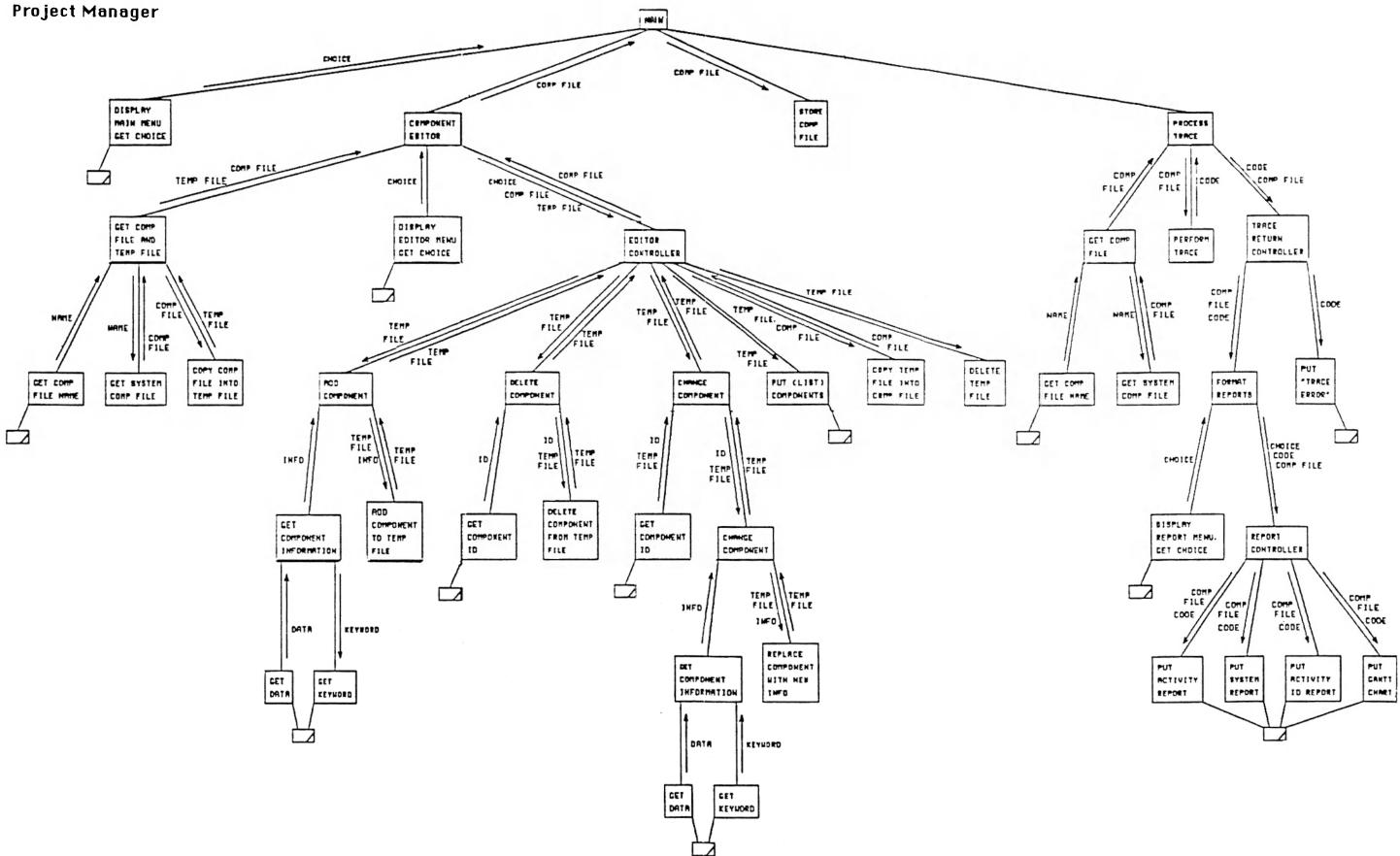
D-19.2



D-19.3



Yourdon-Constantine Project Manager



Appendix E

Spreadsheet Data

Combined Results

Mean Time - Training	SA	AD	00	PM	ALL SYSTEMS
HOS	0:09:27	0:07:30	0:07:04	0:07:29	0:07:52
JACKSON	0:06:45	0:06:00	0:05:19	0:05:03	0:05:47
W-0	0:08:40	0:07:12	0:06:51	0:06:05	0:07:12
Y-C	0:06:56	0:07:50	0:06:19	0:06:11	0:06:49
ALL METHODS	0:07:57	0:07:08	0:06:23	0:06:12	0:06:55

Spreadsheet Data for Diagram 1

Mean Time - Questions	SA	AD	8	PM	ALL SYSTEMS
HOS	0:11:30	0:09:15	0:07:58	0:08:33	0:09:19
JACKSON	0:08:54	0:07:51	0:08:32	0:07:45	0:08:15
W-O	0:11:11	0:08:47	0:09:28	0:08:06	0:09:23
Y-C	0:08:14	0:10:43	0:09:26	0:08:17	0:09:10
ALL METHODS	0:09:57	0:09:09	0:08:51	0:08:10	0:09:02

Spreadsheet Data for Diagram 2

Mean Number Wrong	SA	AD	30	PM	ALL SYSTEMS
HOS	2.83333333	2.91666667	2	0.91666667	2.16666667
JACKSON	3.41666667	2.58333333	1.333333333	1.83333333	2.29166667
W-O	3.333333333	2.91666667	2	. 1	2.3125
Y-C	3.25	3.33333333	3	2.75	3.08333333
ALL METHODS	3.20833333	2.9375	2.08333333	1.625	2.46354167

Spreadsheet Data for Diagram 7

Mean Ra	te	SA	AD	30	PM	ALL SYSTEMS
HOS		2.41666667	2.58333333	2.16666667	2.5	2.41666667
JACKSO	N	2.66666667	2.08333333	2	2.25	2.25
W-O		3.25	3.16666667	3	3.16666667	3.14583333
Y-C		2.83333333	3.41666667	2.75	3.66666667	3.16666667
ALL METHO	DDS	2.79166667	2.8125	2.47916667	2.89583333	2.74479167

Spreadsheet Data for Diagram 19

Combined Results

External Behavior					
	HOS	JACKSON	W-0	Y-C	ALL METHOD
Savings Account	54.1666667	58.3333333	62.5	75	62.5
Advising	27.777778	44.4444444	41.6666667	50	40.97222222
Country Club	22.2222222	25	30.5555556	47.2222222	31.25
Project Manager	18.75	22.9166667	10.4166667	36.1111111	21.11111111
All Systems	27.777778	34.7222222	31.9444444	50	35.81560284
Location of Action/Decision					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	5.55555556	13.8888889	2.77777778	11.1111111	8.333333333
Advising	22.9166667	10.4166667	16.6666667	5.55555556	18.33333333
Country Club	8.33333333	0	0	0	2.083333333
Project Manager	0	33.3333333	12.5	41.6666667	21.875
All Systems	11.6666667	15	10	21,2962963	14.31623932
Contents of Files/Output					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	38.8888889	30.5555556	27.7777778	41.6666667	34.72222222
Advising	37.5	25	29.1666667	13.8888889	25
Country Club	12.5	4.16666667	18.75	27.0833333	15.625
Project Manager	8.333333333	4.16666667	8.333333333	16.6666667	10.18518519
All Systems	23.4848485	15.1515152	21.2121212	25	21.37681159
Modification					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	20.8333333	45.8333333	58.3333333	8.33333333	33.33333333
Advising	41.6666667	33.3333333	41.6666667	66.6666667	45.83333333
Country Club	37.5	20.8333333	16.6666667	25	2
Project Manager	0	8.333333333	8.333333333	16.6666667	8.333333333
All Systems	22.6190476	26.1904762	29.7619048	23.8095238	

Spreadsheet Data for Diagrams 10, 11 0 12

Professional Results

Mean Time - Training	SA	AD	- 30	PM	ALL SYSTEMS
HOS	0:09:25	0:06:50	0:07:03	0:06:45	0:07:31
JACKSON	0:06:20	0:06:22	0:05:02	0:05:02	0:05:41
W-O	0:07:07	0:06:54	0:07:25	0:05:31	0:06:44
Y-C	0:07:08	0:06:25	0:06:14	0:06:08	
ALL METHODS	0:07:30	0:06:38	0:06:26	0:05:52	

Spreadsheet Data for Diagram 3

Mean Time - Questions	SA	AD	8	PM	ALL SYSTEMS
HOS	0:11:20	0:08:18	0:07:54	0:07:38	0:08:47
JACKSON	0:07:57	0:08:31	0:08:00	0:07:04	0:07:53
W-O	0:10:15	0:08:00	0:09:38	0:07:05	0:08:45
Y-C	0:09:06	0:10:47	0:07:11	0:07:40	0:08:41
ALL METHODS	0:09:39	0:08:54	0:08:11	0:07:22	0:08:31

Spreadsheet Data for Diagram 4

Mean Number Wrong	SA	AD	30	PM	ALL SYSTEMS
HOS	2.16666667	3.5	1.5	1	2.04166667
JACKSON	3.16666667	1.83333333	1.83333333	1.66666667	2.125
W-O	4	2.83333333	2.333333333	0.66666667	2.45833333
Y-C	4	3	2.83333333	2.83333333	3.16666667
ALL METHODS	3.333333333	2.79166667	2.125	1.54166667	2.44791667

Spreadsheet Data for Diagram 8

Mean Rate	SA	AD	20	PM	ALL SYSTEMS
HOS	2.33333333	3.16666667	2.16666667	2.83333333	2.625
JACKSON	2.83333333	2.16666667	2.16666667	2.66666667	2.45833333
W-Q	3.83333333	3.16666667	3.5	3.333333333	3.45833333
Y-C	3.33333333	3.5	2.66666667	3.66666667	3.29166667
ALL METHODS	3.08333333	3	2.625	3.125	2.95833333

Spreadsheet Data for Diagram 20

Professional Results

External Behavior -	description of				
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	33.3333333	41.6666667	66.6666667	91.6666667	58.33333333
Advising	27.7777778	44.4444444	38.8888889	44.4444444	38.88888889
Country Club	22.2222222	38.8888889	33.3333333	44.4444444	34.72222222
Project Manager	20.8333333	16.6666667	8.33333333	33.3333333	18.88888889
All Systems	25	33.33333333	31.9444444	50	34.75177305
Location of Action/Decision					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	0	16.6666667	5.55555556	16.6666667	
Advising	33.3333333	0	16.6666667	0	17.7777778
Country Club	0	0	0	0	0
Project Manager	0	33.3333333	0	33.3333333	16.66666667
All Systems	13.3333333	11.6666667	8.333333333	20.3703704	13.24786325
Contents of Files/Output					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	38.8888889	27.777778	38.8888889	55.555556	40.27777778
Advising	41.6666667	16.6666667	25	5.5555556	20.37037037
Country Club	8.333333333	8.333333333	25	20.8333333	15.625
Project Manager	8.333333333	0	16.6666667	16.6666667	11.11111111
All Systems	22.7272727	13.6363636	27.2727273	24.3589744	22.10144928
Modification					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	16.6666667	50	66.6666667	0	33.33333333
Advising	50	16.6666667	50	83.3333333	
Country Club	25	16.6666667	16.6666667	33.3333333	22.91666667
Project Manager	0	16.6666667	0	33.3333333	12.5
All Systems	19.047619	26.1904762	30.952381	30.952381	26.78571429

Spreadsheet Data for Diagrams 13, 14 & 15

Student Results

Mean Time - Training	SA	AD	20	PM	ALL SYSTEMS
HOS	0:09:28	0:08:10	0:07:04	0:08:14	0:08:14
JACKSON	0:07:11	0:05:38	0:05:37	0:05:03	0:05:52
W-O	0:10:13	0:07:29	0:06:17	0:06:38	0:07:40
Y-C	0:06:45	0:09:15	0:06:25	0:06:14	0:07:10
ALL METHODS	0:08:24	0:07:38	0:06:21	0:06:32	0:07:14

Spreadsheet Data for Diagram 5

Mean Time - Questions	SA	AD	8	PM	ALL SYSTEMS
HOS	0:11:39	0:10:13	0:08:02	0:09:28	0:09:51
JACKSON	0:09:52	0:07:10	0:09:04	0:08:26	0:08:38
W-O	0:12:07	0:09:33	0:09:17	0:09:07	0:10:01
Y-C	0:07:23	0:10:39	0:11:41	0:08:54	0:09:39
ALL METHODS	0:10:15	0:09:24	0:09:31	0:08:59	0:09:32

Spreadsheet Data for Diagram 6

Mean Number Wrong	SA	AD	30	PM	ALL SYSTEMS
HOS	3.5	2.333333333	2.5	0.83333333	2.29166667
JACKSON	3.66666667	3.33333333	0.83333333	2	2.45833333
W-Q	2.66666667	3	1.66666667	1.333333333	2.16666667
Y-C	2.5	3.66666667	3.16666667	2.66666667	3
ALL METHODS	3.08333333	3.08333333	2.04166667	1.70833333	2.47916667

Spreadsheet Data for Diagram 9

Mean Rate	SA	AD	8	PM	ALL SYSTEMS
HOS	2.5	2	2.16666667	2.16666667	2.20833333
JACKSON	2.5	2	1.833333333	1.83333333	2.04166667
W-O	2.66666667	3.16666667	2.5	3	2.83333333
Y-C	2.333333333	3.333333333	2.83333333	3.66666667	3.04166667
ALL METHODS	2.5	2.625	2.333333333	2.66666667	2.53125

Spreadsheet Data for Diagram 21

External Behavior					
External Senevior	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	75	75	58.3333333	58.3333333	
Advising	27.777778	44.4444444	44.4444444	55.5555556	
Country Club	22.2222222	11.1111111	27.777778	50	
Project Manager	16.6666667	29.1666667	12.5		the second s
All Systems	30.5555556			50	the second state and the second state of the s
Location of Action/Decision					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	11.1111111	11.1111111	0	5.55555556	6.94444444
Advising	12.5	20.8333333	16.6666667	11.1111111	18.8888888
Country Club	16.6666667	0	0	0	4.166666667
Project Manager	0	33.3333333	25	50	27.08333333
All Systems	10	18.33333333	11.6666667	22.2222222	15.38461538
Contents of Files/Output					
	HOS	JACKSON	W-0	Y-C	ALL METHODS
Savings Account	38.8888889	33.3333333	16.6666667	27.777778	29.16666667
Advising	33.3333333	33.3333333	33.3333333	22.2222222	29.62962963
Country Club	16.6666667	0	12.5	33.3333333	15.625
Project Manager	8.333333333	8.33333333	0	16.6666667	
All Systems	24.2424242	16.6666667	15.1515152	25.6410256	
Modification			1.1.1.1		
	HOS	JACKSON	W-0	Y-C	ALL METHOD
Savings Account	25	41.5666667	50	16.6666667	33.33333333
Advising	33.3333333	50	33.33333333	50	41.66666667
Country Club	50	25	16.6666667	16.6666667	27.0833333
Project Manager	0	0	16.6666667	0	4.166666667
All Systems	26,1904762	26.1904762	28.5714286	16.6666667	24.4047619

Spreadsheet Data for Diagrams 16, 17 & 18

Student Spreadsheet Data

	NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	NUMBER S	NUMBER 6
HOS					and the second	
Othelio Des.	0:00:58				0:00:51	0:01:3
HOS training	0:06:31	0:10:54	0:09:45	0:04:13	0:06:21	0:06:3
System Des.	0:00:36	0:01:37	0:01:03	0:00;24	0:00:35	0:01:0
Total Training	0:08:05	0:13:44	0:12:51	0:05:10	0:07:47	0:09:1
System				SAVINGS ACCOUNT		
Seen HOS	no	10	mp	Yes	no	no
#1 Time	0:02:19		0:02:51	0:02:25	0:02:17	0:01:0
Anewer	8 b	8 C	8 8	8 8	Bb	Bb
#2 Time	0:00:22	the second s		the second se	0:00:34	All and the second s
Anewer	A c	4.00.50	A C	A C	0.00.34	A c
#3 Time	0:01:03	0:00:39	0:02:01		A. 4	the second s
	B b				0:01:36	0:02:2
Answer	the second division of	BA	BC	88	8 5	8 6
#4 Time	0:00:57		0:01:45		0:02:02	
Answer	Db	DB	DA	DD	0.6	Dd
#5 Time	0:00:21	0:01:41	0:01:39		0:00:29	0:00:5
Anewer	Bb	BC	and the second se	BB	8 6	Bb
#6 Time	0:00:38	0:02:05	0:01:08		0:00:39	
Anower	Bb	BB	BC	BC	Bb	8 b
#7 Time	0:00:20	0:00:27	0:01:30	0:01:20	0:00:14	0:01:4
Anaver	IC e	C C	CB	CC	Cc	Cc
# Time	0:00:37	0:00:52	0:01:54	0:00:34	0:01:41	0:00:4
Angerer	8 4	BA	BA	BC	8 b	8 .
#9 Time	0:00:16	0:01:04	0:01:32		0:00:16	0:01:1
Answer	8 6	8 8	BC	8 8	8 6	Bb
#10 Time	0:00:16	0:00:16	0:00:58		0:00:21	0:00:2
Answer	C c	CC	CC	CC	C c	C c
TOTAL TIMe	0:07:09	0:10:52	0:16:34		0:10:09	
TOTAL Wrong	0.07.00	0.10.22	V.10.24	Vi16:46		
HOS Finte					1	
	NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	NUMBER S	NUMBER 5
JACKSON	HUMBER I	HUMDEN &	NUMBER &	RVMPEN +	NUMPER 3	NUMPER D
Othelio Des.	0:00:41	0:01:07	0:01:05	0:00:22	0:00:25	0.00.0
JACK training	0:02:57	0:05:48	0:06:51			0:00:2
				0:02:15	0:02:56	0:05:0
System Des.	0:00:38	0:01:03	0:01:01		0:00:37	0:00:4
Total Training	0:04:16	0:07:56	0:08:57	0:03:01	0:03:58	
System	ADVISING	ADVISING	COUNTRYCLUS	PROJECT MANAGER	and the second data of the local data was not the	PROJECT MANAGE
Seen JACK	ino .	no	m	VHE.	no	10
#1 Time			0:02:42	0:00:24	0:01:19	
	0:00:43	0:00:39	M.U.S. 46			
Anewer	Co	CB	A A	CC	A .	Ce
#2 Time	C c 0:00:35	C B 0:01:43	A A 0:01:23	C C 0:00:44	0:01:11	C c 0:00:2
Anewer	C c 0:00:35 B a	C B 0:01:43 B B	A A 0:01:23 B B	C C 0:00:44 A C	0:01:11 B b	Ce
#2 Time Anewer #3 Time	C c 0:00:35 B 4 0:01:17	C B 0:01:43 B B 0:01:47	A A 0:01:23 B B 0:01:00	C C 0:00:44 A C 0:01:11	0:01:11 B b 0:00:18	C c 0:00:2 A a 0:02:1
Anower Anower 43 Time Anower	C c 0:00:35 B 4 0:01:17 B c	C B 0:01:43 B B 0:01:47 B B	A A 0:01:23 B B	C C 0:00:44 A C	0:01:11 B b	C c 0:00:2 A s
#2 Time Anewer #3 Time	C c 0:00:35 B 4 0:01:17	C B 0:01:43 B B 0:01:47	A A 0:01:23 B B 0:01:00	C C 0:00:44 A C 0:01:11 C C	0:01:11 B b 0:00:18	C c 0:00:2 A a 0:02:1 C a
Anower Anower 43 Time Anower	C c 0:00:35 B 4 0:01:17 B c	C B 0:01:43 B B 0:01:47 B B	A A 0:01:23 B B 0:01:00 B B 0:01:20	C C 0:00:44 A C 0:01:11 C C	0:01:11 5 b 0:00:18 5 b	C c 0:00:2 A a 0:02:1 C a
Angever Angever #3 Time Angever #4 Time	C c 0:00:35 B a 0:01:17 B c 0:00:27	C B 0:01:43 B B 0:01:47 B B 0:00:40	A A 0:01:23 B B 0:01:00 B B 0:01:20	C C 0:00:44 A C 0:01:11 C C 0:00:23	0:01:11 B b 0:00:18 B b 0:00:13 C c	C c 0:00:2 A s 0:02:1 C s 0:00:3 B b
82 Time Answer 83 Time Answer 84 Time Answer	C 0 0:00:35 B 4 0:01:17 B 7 0:00:27 A 4	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B	A A 0:01:23 B B 0:01:00 B B 0:01:20 C C	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21	C c 0:00:2 A s 0:02:1 C s 0:00:3 B b
Anawer Anawer #5 Time Anawer #4 Time Anawer #5 Time	C 0 0:00:35 B 4 0:01:17 B 0 0:00:27 A 4 0:00:16 B b	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A	A A D:01:23 B B D:01:00 B B D:01:20 C C C C 0:01:13 C C	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a
42 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time	C 0 0:00:35 B 4 0:01:17 B 0 0:00:27 A 4 0:00:16 B b 0:00:21	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30	A A 0:01:23 B B 0:01:00 B B 0:01:20 C C 0:01:13 C C 0:00:43	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:10	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:5
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #6 Time	C 0 0:00:35 B 4 0:01:17 B 0 0:00:27 A 4 0:00:16 B b 0:00:21 A 4	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A	A A 0:01:23 B B 0:01:00 B B 0:01:20 C C 0:01:13 C C 0:00:43 A A	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:10 B B	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:3 B a
12 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 46 Time Answer 47 Time	C 0 0:00:35 B 4 0:01:17 B 0 0:00:27 A 4 0:00:16 B b 0:00:21 A 4 0:00:21 A 4	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:11	A A D:01:23 B B D:01:20 E B D:01:20 C C D:01:20 C C D:01:21 C C D:01:23 A A D:01:23	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:10 B B 0:00:32	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a 0:01:01	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 B a 0:00:3 B a
#2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer	C 0 0:00:35 B 4 0:01:17 B 0 0:00:27 A 4 0:00:16 B b 0:00:21 A 4 0:00:21 0:00:21 0:00:21 C 0	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:11 C C	A A D:01:23 B B D:01:20 B B D:01:20 C C D:01:13 C C D:01:13 C C D:00:43 A A D:00:51 B B	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:17 A A 0:00:32 A A	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:20 A a 0:01:01 B b	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 B a 0:00:2 A a
100 100	C c 0:00:35 B a 0:01:17 B c 0:00:27 A a 0:00:18 B b 0:00:21 A a 0:00:21 C c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:11 C C 0:00:50	A A 0:01:23 B B 0:01:00 B B 0:01:20 C C 0:01:13 C C 0:00:43 A A 0:00:51 B B 0:01:19	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:10 B B 0:00:32 A A 0:00:37	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:240 A a 0:01:01 B b 0:00:51	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:5 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:02:1 C a 0:02:1 C a 0:00:2 A a 0:02:1 C a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:3 A a 0:00:5 A a 0:00:5 0:00:
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6	C c C c C c C c C c C c C c C c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:30 C C 0:00:50 C C	A A D:01:23 B B 0:01:20 C C C C 0:01:13 C C 0:00:43 A A 0:00:51 B B 0:01:19 A B	C C 0:00;44 A C 0:01;11 C C 0:00;23 B B 0:00;17 A A 0:00;37 A A 0:00;37 A A	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a 0:01:01 B b 0:00:51 A a	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 B a 0:00:3 A a 0:00:4 A a 0:00:5 A a
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #8 Time Answer #9 #9 Time	C c 0:00:35 B s 0:01:17 B c 0:00:27 A s 0:00:27 A s 0:00:21 C c 0:00:08 C c 0:00:031 C b 0:00:18	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:15 C C 0:00:50 C C 0:00:31	A A D:01:23 B B D:01:20 E B D:01:20 C C D:01:20 C C D:01:21 C C D:00:43 A A D:00:51 B B D:01:20 C C D:01:23 C C D:01:23 D:01:23 D:01:20 D:00:43 D:00:51 D:00	C C 0:00;44 A C 0:01;11 C C 0:00;23 B B 0:00;17 A A 0:00;17 A A 0:00;37 A A 0:00;37 A A 0:01;35	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a 0:01:01 B b 0:00:51 A a 0:00:47	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:3 B a 0:00:3 A a 0:00:2 A a 0:00:1 C a
#2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time Answer	C c 0:00:35 B a 0:01:17 B c 0:00:27 A a 0:00:16 B b 0:00:21 A a 0:00:21 C c 0:00:08 C c 0:00:31 C b 0:00:14 B c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:11 C C 0:00:50 C C 0:00:51 B B	A A D:01:23 B B D:01:20 C C D:01:20 C C D:01:13 C C D:00:43 A A D:00:51 B B D:01:19 A B D:01:56 B B	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:17 A A 0:00:32 A A 0:00:37 A A 0:01:35 B C	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:20 A a 0:01:01 B b 0:00:51 A a 0:00:51 B b	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 A a 0:00:2 A a 0:00:3 A a 0:00:2 A a 0:00:3 A a 0:00:2 A a 0:02:1 C a 0:02:1 C a 0:02:1 C a 0:02:1 C a 0:00:2 A a 0:00:1 C a
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #6 Time Answer #6 #8 Time Answer #6 #9 Time Answer #6 #10 Time	C c 0:00:35 B a 0:01:17 B c 0:00:27 A a 0:00:16 B b 0:00:21 A a 0:00:21 C c 0:00:08 C c 0:00:01 C b 0:00:14 B c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:15 B A 0:00:30 A A 0:00:11 C C 0:00:50 C C 0:00:31 B B 0:00:49	A A 0:01:23 B B 0:01:00 B B 0:01:20 C C 0:01:20 C C 0:01:13 C C 0:00:51 B B 0:01:56 B B 0:01:56 B D	C C 0:00:44 A C 0:01:11 C C 0:00:23 B B 0:00:17 A A 0:00:37 A A 0:00:37 A A 0:00:37 B C 0:01:45	0:01:11 B 0:00:18 B 0:00:13 C 0:00:21 C 0:00:21 C 0:00:21 C 0:00:21 A 0:00:40 A 0:00:51 A 0:00:25 B b 0:00:25 0:00:25	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:5 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:1 C a 0:02:1 C a 0:02:1 C a 0:02:1 C a 0:00:2 A a 0:00:2 C a 0:00:2 C a 0:00:2 C a 0:00:2 C a 0:00:2 C a 0:00:2 C a 0:00:2 C a 0:00:3 C a 0:00:3 C a 0:00:5 C a
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #10 Time Answer #10	C c C c C c C c C c C c C c C c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:11 C C 0:00:50 C C 0:00:31 B B 0:00:49 A A	A A D:01:23 B B D:01:20 C C D:01:20 C C D:01:20 C C D:01:13 C C D:00:43 A A D:00:51 B B D:01:19 A B D:01:20 C C D:01:20 C C D:00:1:20 C C D:00:1:20 C C D:00:1:10 C C D:00:1:10 C C D:00:51 B B D:01:00 C C D:00:51 C C D:00 C C	C C 0:00;44 A C 0:01;11 C C 0:00;23 B B 0:00;17 A A 0:00;37 A A 0:00;37 A A 0:00;37 B C 0:01:45 C C	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a 0:01:01 B b 0:00:51 A a 0:00:47 B b 0:00:25 C c	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 B a 0:00:3 A a 0:00:3 C a 0:00:5 A a 0:00:5 C c
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #6 Time Answer #6 #8 Time Answer #6 #9 Time Answer #6 #10 Time	C c 0:00:35 B s 0:01:17 B c 0:00:27 A s 0:00:27 A s 0:00:21 A s 0:00:21 C c 0:00:08 C c 0:00:031 C b 0:00:18 B c 0:00:14 A s	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:30 A A 0:00:11 C C 0:00:50 C C 0:00:31 B B 0:00:49 A A 0:07:55	A A D:01:23 B B D:01:20 E B D:01:20 C C D:01:20 C C D:01:20 C C D:01:20 C C D:01:20 C C D:01:20 C C D:01:21 B B D:01:21 B B D:01:23 C C D:01:23 C C D:01:23 C C D:01:23 C C D:01:20 C C D:01:20 C C D:01:20 D:01:20 C C D:01:20 D:01:20 C C D:01:20 C C D:01:20 C C D:01:20 D:01:20 C C D:01:20 C C D:01:20 D:01:20 C C D:01:20 C C D:01:20 C C D:01:20 D:01:20 C C D:01:20 C C D:01:20 D:01:20 C C D:00:1:10 D:01:20 C C D:00:1:10 D:01:20 C C D:00:1:10 D:01:20 C C D:00:1:10 D:00:1:10 C C D:00:1:10 D:00:1:10 C C D:00:1:10 D:00:1:10 C C D:00:1:10 C C D:00:10 C C D:00:10 C C D:00:10 C C D:00:10 C C D:00:10 C C D:00:10 C C D:00:10 C C D:00 C C D:00 C C C C C D:00 C C D:00 C C C C C C C	C C 0:00;44 A C 0:01;11 C C 0:00;23 B B 0:00;17 A A 0:00;17 A A 0:00;37 A A 0:00;37 A A 0:00;37 B C 0:01;45 C C 0:07;38	0:01:11 B 0:00:18 B 0:00:13 C 0:00:21 C 0:00:21 C 0:00:21 C 0:00:21 A 0:00:40 A 0:00:51 A 0:00:25 B b 0:00:25 0:00:25	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:3 B a 0:00:3 A a 0:00:3 B a 0:00:5 A a 0:00:5 C c
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #10 Time Answer #10	C c C c C c C c C c C c C c C c	C B 0:01:43 B B 0:01:47 B B 0:00:40 A B 0:00:15 B A 0:00:11 C C 0:00:50 C C 0:00:50 C C 0:00:50 C C 0:00:49 A A 0:00:49 A A 0:00:49 A A	A A D:01:23 B B D:01:20 E B D:01:20 C C D:01:20 C C D:01:21 C C D:00:43 A A D:01:19 A B D:01:156 B B D:01:14 C C	C C 0:00;44 A C 0:01;11 C C 0:00;23 B B 0:00;17 A A 0:00;17 A A 0:00;37 A A 0:00;37 A A 0:00;37 B C 0:01;45 C C 0:07;38	0:01:11 B b 0:00:18 B b 0:00:13 C c 0:00:21 C c 0:00:40 A a 0:01:01 B b 0:00:51 A a 0:00:47 B b 0:00:25 C c	C c 0:00:2 A a 0:02:1 C a 0:00:3 B b 0:00:5 A a 0:00:2 A a 0:00:3 B a 0:00:5 A a 0:00:5 C c 0:00:2 0:00:3 0:00:5 0:00:3 0:00:5 0

	NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	Inches a	
WARNIER-ORR	NUMBER	NUMBER 2	NUMBER a	NUMBER 4	NUMBER 5	NUMBER 6
Othelio Des.	0:00:09	0:00:42	0:01:10	0:00:20	0:00:18	0:00:
WO training	0:02:23					
System Des.	0:00:33	0:02:06	0:01:40	0:00:36	0:00:53	0:00;
Total Training	0:03:05					
System Seen WO	COUNTRY CLUB	PROJECT MANAGER		ADVISING	PROJECT MANAGER	
#1 Time	0:00:12	0:00:31	0:03:37	0:02:07	0:00:51	0:01
Anewer	A b	CC	C C	C C	C c	A
#2 Time	0:01:34	0:02:17	0:03:57	0:01:07		
Anewer	8 b		18 A	8 8	A	Bb
#3 Time	0:00:17				0:00:28	
Answer	Bb	0.0	BB	B B	Cc	Bb
Answer	0:00:11	0:00:26 B B	0:01:44	0:00:21	0:00:54	0:02 C c
#5 Time	0:00:19					
Answer	C c	A A	B B	B A	A .	C c
#6 Time	0:00:30			0:00:52		0:00
Anewer	A.e	BB	AA	A A	Вь	Aa
#7 Time	0:00:14	0:01:09			0:00:49	
Answer	B a.	A A	CC	C C	A	Bb
#8 Time	0:00:22		0:01:33		0:00:32	0:00
	A b	A A	C C	CC	A .	A #
#9 Time Answer	0:00:25 B b		0:00:38 B B	0:00:41 B B	0:00:22 B b	0:00 B b
#10 Time	0:00:25					0:00
Answer	C c	CC	A A	AA	Cc	Cc
TOTAL Time	0:04:29		0:17:53			
TOTAL Wrond	4		1	1		
WO Fate	4	4	3	4		
	NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	NUMBER 5	NUMBER 6
YOURDON-CONSTANTIN Othelio Des.	0:00:25	0:00:34	0:01:33	0:00:19	0:00:41	0:00
YC training	0:03:11					
Svetem Des.	0:00:42		The second se			
Total Training	0:04:18					
System	PROJECT MANAGER	COUNTRYCLUB	PROJECT MANAGER	COUNTRYCLUB	ADVISING	ADVISING
Seen YC	no	no	no	Ves	no	no
#1 Time	0:00:53					
Answer #2 Time	C c 0:00:16	A C 0:01:37	0:01:55	A A 0:01:43	C c 0:00:31	C c
Anewer	A 4	B A	A A	B B	B .	0:00 B a
#3 Time	0:00:54			0:00:36		
	Ca	BB	IC A	BB	Bb	Ba
Anewer						0:00
	0:00:21	0:00:57		0:00:43	0:00:22	0.00
Anewer	0:00:21 B b	C A	BB	CC	A .	A .
Answer #4 Time Answer #5 Time	0:00:21 B b 0:00:21	C A 0:00:19	B B 0:01:00	0:00:32	A a	A . 0:01
Answer #4 Time Answer #5 Time Answer	0:00:21 B b 0:00:21 A a	C A 0:00:19 C C	B B 0:01:00	C C 0:00:32 C C	A a 0:00:41 B b	A . 0:01 B .
Angwer #4 Time Angwer #5 Time Angwer #6 Time	0:00:21 B b 0:00:21 A a 0:00:08	C A 0:00:19 C C 0:00:40	B B 0:01:00 A A 0:02:23	C C 0:00:32 C C 0:00:22	A a 0:00:41 B b	A & 0:01 B & 0:00
Answer #4 Time Answer #5 Time Answer #6 Time Answer	0:00:21 B b 0:00:21 A a 0:00:08 B b	C A 0:00:19 C C 0:00:40 A B	B B 0:01:00 A A 0:02:23 B B	C C 0:00:32 C C 0:00:22 A C	A a D:00:41 B b 0:00:56 A a	A a 0:01 B a 0:00 A b
Answer #4 Time Answer #5 Time Answer &6 Time Answer #7 Time	0:00:21 B b 0:00:21 A a 0:00:08 B b 0:00:08	C A 0:00:19 C C 0:00:40 A B 0:00:36	B B 0:01:00 A A 0:02:23 B B 0:00:43	C C 0:00:32 C C 0:00:22 A C 0:01:09	A a 0:00:41 B b 0:00:56 A a 0:00:16	A a 0:01 B a 0:00 A b 0:00
Anewer #4 Time Anewer #5 Time Anewer #6 Time Anewer #7 Time Anewer	0:00:21 B b 0:00:21 A a 0:00:08 B b 0:00:11 A a	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A	B B 0:01:00 A A 0:02:23 B B 0:00:43 A A	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c	A a 0:01 B a 0:00 A b 0:00 C c
Answer #4 Time Answer #5 Time Answer #6 Time Answer #8 Time Answer #8 Time Answer	0:00:21 B b 0:00:21 A a 0:00:08 B b 0:00:08	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c	A a 0:01 B a 0:00 A b 0:00 C c
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time Answer #9 Time	0:00:21 B b 0:00:21 A a 0:00:06 B b 0:00:11 A a 0:00:06 A a 0:01:20	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:48	C C 0:00:32 C C A C 0:01:09 B B 0:01:00 A A 0:01:04	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:38	A a 0:01 B a 0:00 A b 0:00 C c 0:00 C a 0:00
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer	0:00:21 B b 0:00:21 A a 0:00:08 B b 0:00:11 A a 0:00:06 A a 0:01:20 B c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0 0:01:30 A A 0 0:02:46 B C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:38 B c	A a 0:001 B a 0:000 C c 0:000 C a 0:000 C a 0:000 B c
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #9 Time	0:00:21 B b 0:00:08 B b 0:00:08 B b 0:00:011 A a 0:00:06 A a 0:00:21 Constant 0:00:08 Constant 0:00:08 Constant 0:00:09 Constant	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:29	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:48 B C 0:00:29	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:38 B c 0:00:35	A a 0:01 B a 0:00 A b 0:00 C c 0:00 C a 0:00 B c 0:00
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #9 Time Answer #10 Time Answer	0:00:21 B b 0:00:05 B b 0:00:05 B b 0:00:06 A a 0:00:06 A a 0:01:20 B c 0:00:24 C c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a	A a 0:01 B a 0:00 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time TOTAL Time	0:00:21 B b 0:00:08 B b 0:00:08 B b 0:00:011 A a 0:00:06 A a 0:00:24 0:00:24	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a 0:00:55	A a 0:01 B a 0:00 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b 0:00
Answer #4 Time Answer #5 Time Answer #5 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer #10 Time Answer TOTAL Time	0:00:21 B b 0:00:05 B b 0:00:05 B b 0:00:06 A a 0:00:06 A a 0:01:20 B c 0:00:24 C c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a 0:00:35 A a 0:00:53 A a	A a 0:001 B a 0:000 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b 0:09
Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time TOTAL Time	0:00:21 B b 0:00:05 B b 0:00:05 B b 0:00:06 A a 0:00:06 A a 0:01:20 B c 0:00:24 C c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a 0:00:55	A a 0:001 B a 0:000 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b 0:00 0 0 0:00 0 0:00 0 0 0 0 0 0 0 0 0 0 0 0
Answer #4 Time Answer #5 Time Answer #5 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer #10 Time Answer TOTAL Time	0:00:21 B b 0:00:05 B b 0:00:05 B b 0:00:06 A a 0:00:06 A a 0:01:20 B c 0:00:24 C c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a 0:00:35 A a 0:00:53 A a	A a 0:001 B a 0:000 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b 0:09
Answer #4 Time Answer #5 Time Answer #5 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer #10 Time Answer TOTAL Time	0:00:21 B b 0:00:05 B b 0:00:05 B b 0:00:06 A a 0:00:06 A a 0:01:20 B c 0:00:24 C c	C A 0:00:19 C C 0:00:40 A B 0:00:36 B A 0:01:13 A A 0:00:42 B B 0:00:42 C A	B B 0 0:01:00 A A 0 0:02:23 B B 0 0:00:43 A A 0:01:30 A A 0:02:49 B C 0:00:29 C C	C C 0:00:32 C C 0:00:22 A C 0:01:09 B B 0:01:00 A A 0:01:04 B B 0:01:28 C A	A a 0:00:41 B b 0:00:56 A a 0:00:16 C c 0:01:40 C a 0:00:35 B c 0:00:35 A a 0:00:35 A a 0:00:53 A a	A a 0:01 B a 0:00 A b 0:00 C c 0:00 C a 0:00 B c 0:00 A b 0:09

	NUMBER 7	NUMBER .	NUMBER 9	NUMBER 10	NUMBER 11	NUMBER 12
HOE						
Othelio Des.	0:00:35			0:00:55	0:00:23	0:06:
HOS training	0:04:20			0:05:56	0:07:32	0:02:
System Des.	0:00:47		the second s	0:01:37		
Total Training	0:05:53			0:08:28		
System	ADVISING	ADVISING	COUNTRYCLUB	PROJECT MANAGER	COUNTRYCLUB	PROJECT MANAGE
Seen HOS	no	no	110	no	no	no
#1 Time	0:01:35		0:01:34	0:00:36	0:02:44	0:01:
Answer	Cc	Ç¢	A 8	C c	A 8.	IC A
#2 Time	0:00:10	0:01:23	0:01:14	0:00:42	0:01:05	0:00:
Anewer	8 6	8 4	Bb	At	Bb	AA
#3 Time	0:00:44	0:02:14	0:00:29	0:01:07	0:00:47	0:00:
Anamer	8 5	Bb	Bb	Cc	8 b	CC
#4 Time	0:00:45	the second s		0:00:06		0:00:
Anewer	A 8	A .	Cc	Bb	Ca	8 8
#5 Time	0:00:50			0:01:08		0:01:
	the second se	the second s	and the second se	0.01.00	C c	A B
Anewer	8 .	B	C c	0.0		
#6 Time	0:00:35			0:01:18		
Answer	A	A	A	8 6	A #	8 B
#7 Time	0:00:14			0:00:54	0:01:31	0:00:
Answer	Cc	Cc	8.	A 1	8 .	A A
#8 Time	0:01:23	0:00:31	0:00:20	0:00:31	0:01:37	0:00:
Anewer	Сь	Co	Ab	A 1	A 0	A . A
#9 Time	0:00:16	0:00:11	0:00:19	0:00:38	0:01:01	0:00:
Answer	8 6	Bb	8 5	8 6	8 4	88
#10 Time	0:02:21		0:00:36	0:01:14	0:00:57	0:02:
Answer	Ab	Ac	0 0	Сь	Cc	CC
TOTAL TIME	0:09:02		0:07:27	0:08:14	0:11:46	0:11:
TOTAL Wrong			2	1	4	
HOS Pate					3	
ITUO ITUN	NUMBER 7	NUMBER &	NUMBER 2	NUMBER 10		NUMBER 12
ILANADU	INOWIDEN /	Intrange Ert #	HUMBER 4	HONOLEIN IV		nempen 15
JACKSON						
Ontra Res Dans	0.00.20	0.04.04	0.00.00	0.00.00	0.00.40	0.01.
Othello Des.	0:00:53			0:02:05		
JACK training	0:03:22	0:04:31	0:02:28	0:03:19	0:08:10	0:06:
JACK training System Des.	0:03:22	0:04:31	0:02:28	0:03:19 0:00:38	0:06:10 0:00:55	0:06: 0:02:
JACK training Svatem Des. Total Training	0:03:22 0:00:55 0:05:10	0:04:31	0:02:28 0:00:36 0:03:36	0:03:19 0:00:38 0:06:02	0:06:10 0:00:56 0:07:48	0:06: 0:02: 0:10:
JACK training System Des.	0:03:22 0:00:55 0:05:10	0:04:31	0:02:28	0:03:19 0:00:38 0:06:02	0:06:10 0:00:56 0:07:48	0:06: 0:02: 0:10:
JACK training Svatem Des. Total Training	0:03:22 0:00:55 0:05:10	0:04:31	0:02:28 0:00:36 0:03:36 SAVINGS ACCOUNT 10	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT	0:08:10 0:00:58 0:07:48 SAVINGS ACCOUNT Ves	0:06: 0:02: 0:10: SAVINGS ACCOUN
JACK training Sverem Des. Total Training System	0:03:22 0:00:55 0:05:10 SAVINGS ACCOUNT	0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT	0:02:28 0:00:36 0:03:36 SAVINGS ACCOUNT	0:03:19 0:00:38 0:08:02 SAVINGS ACCOUNT	0:08:10 0:00:58 0:07:48 SAVINGS ACCOUNT	0:06: 0:02: 0:10: SAVINGS ACCOUN
JACK waining System Des. Total Training System Seen JACK #1 Time	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLINT Nº 0:00:20	0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT	0:02:28 0:00:36 0:03:36 SAVINGS ACCOUNT 10	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT	0:08:10 0:00:58 0:07:48 SAVINGS ACCOUNT Ves	0:02: 0:10: SAVINGS ACCOUN
JACK waining Sween Des. Total Training System Seen JACK 41 Time Answer	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT 00 0:00:20 B b	0:04:31 0:01:04 0:10:13 SAVINGS ACCOUNT NP 0:02:44 B b	0:02:28 0:00:36 0:03:36 SAVINGS ACCOLINT NO 0:00:51 B b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT IP 0:01:15	0:06:10 0:00:56 0:07:48 SAVINGS ACCOLINT Ves 0:01:14	0:06: 0:02: 0:10: SAVINGS ACCOUN NO 0:02: B B
JACK training System Des. Total Training System Seen JACK #1 Time Answer #2 Time	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT 00 0:00:20 8 b 0:01:09	0:04:31 0:01:04 0:10:13 SAVINGS ACCOUNT NP 0:02:44 B b	0:02:28 0:00:36 0:03:36 SAVINGS ACCOLINT R0 0:00:51 B b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT 10 0:01:15 B b	0:08:10 0:00:55 0:07:48 SAVINGS ACCOLINT Y98 0:01:14 B b	0:06: 0:02: 0:10: SAVINGS ACCOUN NO 0:02: B B
JACK training Svetem Des. Total Training Svetem Seen JACK #1 Time Anower #2 Time Anower	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLINT 00 0:00:24 0:00:24 0:01:05 A 4	0:04:31 0:01:00 0:10:13 SAVINGS ACCOLINT Info 0:02:44 B b 0:02:44 A 4	0:02:28 0:00:36 0:03:36 SAVINGS ACCCUNT IP 0:00:51 B b 0:00:29 A a	0:03:19 0:00:38 0:06:02 SAVINGS ACCOLINT ID 0:01:15 B b 0:00:41 A b	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V88 0:01:14 B b 0:00:58 A 4	0:08: 0:02: 0:10: SAVINGS ACCOUN no 0:02: B B 0:01: A A
JACK training Svetem Des. Total Training Svetem Seen JACK #1 Time Answer #2 Time Answer #3 Time	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLINT ne 0:00:24 B b 0:01:00 A s 0:00:54	0:04:31 0:01:04 0:10:13 SAVINGS ACCOUNT Nº 0:02:44 B b 0:01:53 A a 0:01:51	0:02:28 0:00:36 0:03:36 SAVINGS ACCCUNT MO 0:00:51 B b 0:00:52 A a 0:00:16	0:03:19 0:00:38 0:00:02 SAVINGS ACCOLANT ID 0:01:15 B b 0:00:41 A b 0:00:50	0:08:10 0:00:58 0:07:48 SAVINGS ACCOUNT VIE 0:01:14 B b 0:00:58 A a 0:00:52	0:08: 0:102: 0:10: 5AVINGS ACCOUNT NP. 0:02: B B 0:01: A A 0:01:
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT no 0:00:20 B b 0:01:00 A s 0:00:54 B d	C 0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT 00 0:02:44 B b 0:01:53 A a 0:01:41 B a	0:02:28 0:00:36 0:03:30 3AVINGS ACCOUNT 10 0:00:51 8 b 0:00:28 A a 0:00:16 8 b	0:03:19 0:00:38 0:09:02 SAVINGS ACCOUNT NP 0:01:15 B b 0:00:41 A b 0:00:50 B s	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V95 0:01:14 B b 0:00:58 A 4 0:00:52 B s	0:08: 0:02: 0:10: SAVINGS ACCOUNT NO 0:02: B B 0:01: A A 0:01: B A
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 42 Time Answer 43 Time Answer 44 Time	0:03:22 0:00:55 0:09:10 SAVINGS ACCOLAT 00 0:00:20 B b 0:01:09 A 4 0:00:54 B d 0:00:57	0:04:31 0:01:00 0:10:13 SAVINGS ACCOUNT nº 0:02:44 B b 0:01:53 A a 0:01:41 B a 0:00:34	0:02:28 0:00:36 0:03:30 SAVINGS ACCOUNT 10 0:00:51 B b 0:00:29 A s 0:00:16 B b 0:00:11	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT 10 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:07	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V88 0:01:14 B b 0:00:58 A 4 0:00:52 B a 0:00:57	0:08: 0:02: 0:10: SAVINGS ACCOUN no 0:02: B B 0:01: A A 0:01: B A 0:01:
JACK training Svetem Des. Total Training Svetem Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT 00 0:00:24 0:00:24 0:01:05 A 4 0:00:57 D d	0:04:31 0:01:04 0:10:13 SAVINGS ACCOLNT INP 0:02:44 B b 0:01:53 A a 0:01:53 A a 0:01:41 B a	0:02:28 0:00:36 0:03:36 SAVINGS ACCCUNT 12 0:00:51 B b 0:00:29 A a 0:00:16 B b 0:00:11 D d	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT NO 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:07 D a	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V88 0:01:14 B b 0:00:58 A 4 0:00:52 B a 0:00:57 D b	0:08: 0:102: 0:10: SAVINGS ACCOUNT NO 0:02: B B 0:01: A A 0:01: B A 0:01: D A
JACK training Svetem Des. Total Training Svetem Svetem Answer #2 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:03:22 0:00:55 0:05:10 SAVWXS ACCOLANT no 0:00:24 B b 0:01:00 A a 0:00:51 B d 0:00:57 D d 0:01:44	C 0:04:31 0:01:00 0:10:13 SAVINGS ACCOLINT NP 0:02:44 B b 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:54 B a 0:00:34 D a 0:00:34	0:02:28 0:00:36 0:03:36 5AVINGS ACCOUNT 10 0:00:51 8 b 0:00:28 A a 0:00:18 B b 0:00:16 B b 0:00:11 D d 0:00:39	0:03:19 0:00:38 0:06:02 SAVINGS ACCOLANT ID 0:01:15 B b 0:00:41 A b 0:00:50 B s 0:00:50 D s 0:00:52	0:08:10 0:00:58 0:07:48 54VINGS ACCOUNT VIE 0:01:14 B b 0:00:58 A a 0:00:52 B a 0:00:57 D b 0:01:20	0:06: 0:10: 0:10: 5AVINGS ACCOM PD 0:02: B B 0:01: B A 0:01: B A 0:01: D A 0:01:
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #4 Time Answer #5 Time Answer	0:03:22 0:00:55 0:09:10 SAVINGS ACCOLAT 00 0:00:20 B b 0:01:00 A a 0:00:54 B d 0:00:55 D d 0:01:44 B a	C 0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT Nº 0:02:44 B b 0:01:53 A a 0:01:41 B a 0:00:34 0:00:34 0 0:01:41 B a 0:00:34 0 0:01:44 B b	0:02:28 0:00:36 0:03:30 3AVINGS ACCOUNT 10 0:00:51 8 b 0:00:16 8 b 0:00:16 8 b 0:00:11 D d 0:00:39 8 b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT NP 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:52 B c	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V98 0:01:14 B b 0:00:52 B a 0:00:52 B a 0:00:57 D b 0:01:20 B b	0:08: 0:02: 0:10: SAVINGS ACCOUR no 0:02: B B 0:01: A A 0:01: B A 0:01: B A 0:01: B A
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 65 Time Answer 85 Time	0:03:22 0:00:55 0:09:10 SAVINGS ACCOLAT 00 0:00:20 B b 0:01:02 A 4 0:00:54 B d 0:00:55 D d 0:01:44 B a 0:01:02	0:04:31 0:01:00 0:10:13 SAVINGS ACCOUNT 09 0:02:44 8 b 0:01:53 A a 0:01:41 8 a 0:00:34 D a 0:00:34 D a 0:00:34 D a 0:01:41 B b 0:01:41 B b	0:02:28 0:00:36 0:03:30 SAVINGS ACCCUNT 10 0:00:51 B b 0:00:16 B b 0:00:16 B b 0:00:18 B b 0:00:39 B b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOUNT TP 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:52 B c 0:01:14	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V88 0:01:14 B b 0:00:58 B b 0:00:52 B c 0:00:57 D b 0:01:20 B b 0:00:40	0:06: 0:02: 0:10: SAVINGS ACCOUR PD 0:02: B B 0:01: A A 0:01: B A 0:01: D A 0:01: B A 0:01: B A
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JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 65 Time Answer 85 Time	0:03:22 0:00:55 0:05:10 SAVWXSACCOLAVI no 0:00:24 B b 0:00:24 A 4 0:00:51 B d 0:00:55 D d 0:01:04 B a 0:01:103 B c 0:00:32	C 0:04:31 0:01:00 0:10:13 SAVINGS ACCOLINT MP 0:022:44 B b 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:54 B b C 0:01:45 B b C 0:02:14	0:02:28 0:00:36 0:03:36 SAVINGS ACCOUNT IP 0:00:51 B b 0:00:16 B b 0:00:11 D d 0:00:39 B b 0:00:57 B b 0:00:57 B b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOLINT ID 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:57 D a 0:00:52 B c 0:01:14 B c	0:08:10 0:00:55 0:07:48 SAVINGS ACCOUNT Yes 0:01:14 B b 0:00:58 A a 0:00:52 B a 0:00:57 D b 0:01:20 B b 0:00:40 B b 0:00:37	0:06: 0:102: 0:10: 5AVINGS ACCCUP PD 0:02: B B 0:01: B A 0:01: B A 0:01: B A 0:01: B A 0:02: B B 0:02:
JACK training Svetem Des. Total Training Svetem Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT no 0:00:28 B b 0:01:09 A 4 0:00:51 B d 0:00:57 D d 0:01:05 B a 0:01:03 B a 0:01:03 B a	0:04:31 0:01:04 0:10:13 SAVINGS ACCOLINT INP 0:02:44 B b 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:45 B a 0:01:44 B b	0:02:28 0:00:36 0:03:36 SAVINGS ACCCUNT P2 0:00:51 B b 0:00:29 A a 0:00:16 B b 0:00:11 D d 0:00:39 B b	0:03:19 0:00:38 0:06:02 SAVINGS ACCOLINT NO 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:50 D a 0:00:52 B c 0:01:14 B c	0:08:10 0:00:55 0:07:48 5AVINGS ACCOUNT V88 0:01:14 B b 0:00:58 A a 0:00:58 A a 0:00:57 D b 0:01:20 B b 0:01:20 B b	0:06: 0:02: 0:10: 5AVINGS ACCOUR 100 0:02: B B 0:01: B A 0:01: D A 0:01: B A 0:01: B A 0:01: B B
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JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer	0:03:22 0:00:55 0:09:10 SAVINGS ACCOLAT 00 0:00:20 B b 0:01:00 A 4 0:00:51 D d 0:01:44 B 4 0:01:44 B c 0:00:32 C c	C 0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT Nº 0:02:44 B b 0:01:53 A a 0:01:41 B a 0:00:34 D a 0:00:34	0:02:28 0:00:36 0:03:30 SAVINGS ACCOUNT 10 0:00:51 B b 0:00:29 A a 0:00:16 B b 0:00:39 B b 0:00:57 B b 0:00:57 B b 0:00:57 C c	0:03:19 0:00:38 0:00:38 0:09:02 SAVINGS ACCOUNT NP 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:50 B a 0:00:52 B c 0:00:52 B c 0:01:14 B c 0:00:04 C a	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V98 0:01:14 B b 0:00:52 B a 0:00:52 B a 0:00:57 D b 0:01:20 B b 0:00:40 B b 0:00:37 C a	0:06: 0:02: 0:10: SAVINGS ACCOUR no 0:02: B B 0:01: A A 0:01: B A 0:01: D A 0:01: B A 0:01: B A 0:01: C C
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 42 Time Answer 43 Time Answer 45 Time Answer 45 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer	0:03:22 0:00:55 0:05:10 SAVINGS ACCOLAT no 0:00:28 B b 0:01:09 A 4 0:00:57 D d 0:01:05 B d 0:01:05 D d 0:01:105 B c 0:01:05 B c 0:01:05 B c 0:01:105 B c 0:01:105 C c 0:01:11 C c	0:04:31 0:01:04 0:10:13 SAVINGS ACCOLINT INP 0:02:44 B b 0:01:53 A a 0:01:53 A a 0:01:53 A a 0:01:41 B a 0:01:44 B b 0:01:44 B a	0:02:28 0:00:36 0:03:36 SAVINGS ACCCUNT P2 0:00:51 B b 0:00:29 A a 0:00:16 B b 0:00:19 B b 0:00:57 B b 0:00:57 B b 0:00:57 B b 0:00:13 B b	0:03:19 0:00:38 0:00:38 0:00:02 SAVINGS ACCOLINT ID 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:57 D a 0:00:52 B c 0:01:14 B c 0:00:04 B a	0:08:10 0:00:55 0:07:48 SAVINGS ACCOUNT Y88 0:01:14 B b 0:00:58 A 4 0:00:52 B a 0:00:57 D b 0:00:57 D b 0:00:57 C a 0:00:37 C a 0:00:52 B d	0:06: 0:02: 0:10: 5AVINGS ACCOUNT DO 0:02: B B 0:01: B A 0:01: D A 0:01: D A 0:01: D A 0:02: B B 0:02: C C 0:00: B A
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JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 82 Time Answer 84 Time Answer 84 Time Answer 85 Time Answer 85 Time Answer 87 Time Answer 87 Time Answer 85 Time Answer 85 Time Answer 85 Time Answer 85 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer	0:03:22 0:00:55 0:09:10 SAVINGS ACCOLAT 00 0:00:20 B b 0:01:01 A 4 0:00:51 D d 0:01:44 B a 0:01:03 B c 0:01:03 C c 0:00:32 C c 0:01:105 B a 0:01:105 C c	0:04:31 0:01:01 0:101:01 SAVINGS ACCOUNT 0:02:44 B 0:02:44 B 0:01:53 A 0:01:41 B 0:00:34 D 0:01:41 B 0:00:34 D 0:01:41 B 0:01:41 B 0:01:42 B 0:01:43 B 0:01:44 B 0:01:45 B 0:01:45 B 0:01:45 B 0:01:21 B 0:01:21 B 0:01:02 B	0:02:28 0:00:36 0:03:30 SAVINGS ACCOUNT 10 0:00:51 B b 0:00:29 A a 0:00:16 B b 0:00:39 B b 0:00:57 B b 0:00:57 B b 0:00:13 C c 0:00:14 B b	0:03:19 0:00:38 0:00:38 0:08:02 SAVINGS ACCOUNT TP 0:01:15 B b 0:00:11 A b 0:00:50 B a 0:00:52 B c 0:01:14 B c 0:00:04 B c 0:00:04 B a 0:00:08 B a 0:00:08 B b	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V98 0:01:14 B b 0:00:52 B a 0:00:57 D b 0:01:20 B b 0:00:57 C a 0:00:37 C a 0:00:52 B b	0:06: 0:02: 0:10: SAVINGS ACCOUR PD 0:02: B B 0:01: A A 0:01: B A 0:01: D A 0:01: D A 0:01: C C 0:00: B A 0:00: B B
JACK training Svetem Des. Total Training Svetem Seen JACK 41 Time Answer 43 Time Answer 43 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 47 Time Answer 40 Time Answer 49 Time 40 Time	0:03:22 0:00:35 0:09:10 SAVINGS ACCOLAT np 0:00:20 B b 0:01:09 A 4 0:00:51 B d 0:00:55 D d 0:01:05 B d 0:01:05 B c 0:01:05 B c 0:01:05 B c 0:01:10 B s 0:01:10 B s 0:01:10	C 0:04:31 0:01:01 0:10:13 SAVINGS ACCOUNT 00 0:02:44 B b 0:01:53 A a 0:01:53 A a 0:01:54 B a 0:01:41 B a 0:00:34 D a 0:00:34 C c 0:02:14 B b 0:00:34 C c 0:01:41 B b 0:00:34 C c 0:01:41 C c 0:01:21 C c 0:01:01 C c 0:01:01	0:02:28 0:00:36 0:03:30 SAVINGS ACCCUNT 10 0:00:51 B b 0:00:28 A a 0:00:16 B b 0:00:16 B b 0:00:17 B b 0:00:57 B b 0:00:57 B b 0:00:13 C c 0:00:13 B b 0:00:14 B b	0:03:19 0:00:38 0:00:38 0:06:02 SAVINGS ACCOUNT TP 0:01:15 B b 0:00:41 A b 0:00:50 B a 0:00:50 B a 0:00:52 B c 0:01:14 B c 0:00:04 B a 0:00:04 B a 0:00:08 B a 0:00:08 B a 0:00:08	0:08:10 0:00:56 0:07:48 SAVINGS ACCOUNT V88 0:01:14 B b 0:00:58 A 4 0:00:52 B 0:00:57 D b 0:01:20 B b 0:00:57 C 4 0:00:52 B b 0:00:52 B b 0:00:52 B b 0:00:52 B b 0:00:52 B b	0:06: 0:02: 0:10: SAVINGS ACCOUR NO B B 0:02: B B 0:01: A A 0:01: B A 0:01: B A 0:01: C C 0:00: B A 0:00: B A 0:00: B B 0:00:
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	NUMBER 7	NUMBER 8	NUMBER 9	NUMBER 10	NUMBER 11	NUMBER 12
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Othelio Des.	0:00:31	0:00:27			0:00:32	0:04:0
WO training	0:05:16	0:03:45	0:04:10	0:03:37	0:05:05	0:03:3
System Dec.	0:00:41	0:00:33				0:01:0
Total Training	0:06:28	0:04:46				0:08:4
System	COUNTRY CLUB	PROJECT MANAGER		ADVISING	PROJECT MANAGER	COUNTRY CLUB
Seen WO	no	Yes	no	Ves	yes	yes
#1_Time	0:00:42	0:01:00				0:01:4
Answer	A. 4	Cc	СЬ	Co	Co	AA
#2 Time	0:02:37	0:00:41	0:01:18	the second se	0:02:30	0:02:5
Answer	Ba	A.L	Bb	Bb	A 8	BB
#3 Time	0:01:00	0:01:26				0:01:0
Answer	Bb	Co	8 .	B¢	Ca	BB
#4 Time	0:00:38	0:00:39			0:00:51	0:01:2
Answer	0.0	Bb	Ab	A b	8 b	CC
#5 Time	0:00:29	0:00:32	0:00:45			0:00:2
Answer	Co	As	8.	Bc	A. 8	CC
#6 Time	0:00:38	0:00:23	0:00:52		0:01:21	0:01:1
Answer	A	Bb	A .	Ac	Ba	AA
#7 Time	0:02:43	0:00:24			0:00:25	
Answer	8 .	A. 8	Co	Cc	A a	BB
#8 Time	0:00:54	0:00:13	0:00:38			
Answer	A 8	A_C	C b	C .	A .	A A
#9 Time	0:01:05	0:04:32			the second s	
Answer	Bb	Ba	Bb	Bc	Bb	BB
#10 Time	0:01:06	0:01:11	0:01:05			0:00:3
Answer	Ca	Сь	A #	A .	Cc	CA
TOTAL Time	0:11:52	0:11:01	0:07:51	0:07:03	the second s	0:13:2
TOTAL Wrong	3		5		2	
WO Rate	4		3		3	
		NUMBER .	NUMBER 9	NUMBER 10	NUMBER 11	NUMBER 12
YOURDON-CONSTANT						
Othelio Des.	0:00:24	0:02:02	0:00:29	0:01:32	0:00:34	0:06:1
YC training	0:05:14	0:04:12			the second s	
System Des.	0:01:09	0:00:46	0:01:13	0:00:40	0:01:17	0:02:2
System Des. Total Training	0:01:09	0:00:46	0:01:13 0:05:47	0:00:40	0:01:17 0:11:41	0:02:2
System Des. Total Training System	0:01:09 0:06:47 PROJECT MANAGER	0:00:48 0:07:00 COUNTRY CLUB	0:01:13 0:05:47 PROJECT MANAGER	0:00:40 0:06:53 COUNTRY CLUB	0:01:17 0:11:41 ADVISING	0:02:2 0:11:2 ADVISING
System Des. Total Training System Seen YC	0:01:09 0:06:47 PROJECT MANAGER	0:00:48 0:07:00 COUNTRY CLUB	0:01:13 0:05:47 PROJECT MANAGER	0:00:40 0:06:53 COUNTRY CLUB	0:01:17 0:11:41 ADVISING	0:02:2 0:11:2 ADVISING no
System Des. Total Training System Seen YC #1 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05	0:00:48 0:07:00 COUNTRY CLUB NO 0:03:29	0:01:13 0:05:47 PROJECT MANAGER IN0 0:00:42	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:58	0:01:17 0:11:41 ADVISING VIEL 0:02:22	0:02:2 0:11:2 ADVISING no 0:02:1
System Des. Total Training System Seen YC #1 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a	0:00:48 0:07:00 COUNTRY CLUB R0 0:03:29 A 8	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C a	0:00:40 0:08:53 COUNTRY CLUB Yes 0:01:58	0:01:17 0:11:41 ADVISING Vet 0:02:22 C b	0:02:2 0;11:2 ADVISING no 0:02;1 C B
System Des. Total Training System Seen YC #1 Time Answer #2 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53	0:00:48 0:07:00 COLINTRY CLUB NO 0:03:29 A 8 0:02:58	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C a 0:00:36	0:00:40 0:06:53 COUNTRY CLUB Ves 0:01:58 A a 0:01:55	0:01:17 0:11:41 ADVISING Vet 0:02:22 C b 0:02:22	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0
System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a	0:00:45 0:07:00 COUNTRY CLUB RC 0:03:29 A a 0:02:55 B b	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C a 0:00:36 A a	0:00:40 0:08:53 COUNTRY CLUB Ves 0:01:58 A a 0:01:55 B c	0:01:17 0:11:41 ADVISING V#5 0:02:22 C b 0:01:04 B a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A
System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:38	0:00:45 0:07:00 CCUNTRY CLUB RP 0:03:29 A 0:02:55 B b 0:01:18	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55	0:00:40 0:06:53 COUNTRY CLUB Y## 0:01:55 A a 0:01:55 B c 0:00:28	0:01:17 0:11:41 ADVISING VNF 0:02:22 C b 0:01:04 B a 0:01:12	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5
System Des. Total Training System Seen YC 41 Time Answer 82 Time Answer #3 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:38 C c	0:00:45 0:07:00 CCUNTRY CLUB NP 0:03:29 A 0:02:56 B b 0:01:10 B b	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C = 0:00:36 A = 0:00:55 C c	0:00:40 0:08:53 COUNTRY CLUB Ves 0:01:58 A a 0:01:55 B 0 0:00:28 B b	0:01:17 0:11:41 ADVISING VIE 0:02:22 C b 0:01:04 B a 0:01:12 B b	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C
System Des. Total Training System Seen YC 41 Time Answer #2 Time Answer #3 Time Answer #4 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:38 C c 0:00:59	0:00:45 0:07:00 CCUNTRY CLUB np 0:03:29 A * 0:02:59 B b 0:01:10 B b 0:00:45	0:01:13 0:05:47 PRCJECT MANAGER no 0:00:42 C a 0:00:36 A a 0:00:55 C c 0:00:55	0:00:40 0:08:53 COUNTRY CLUB ves 0:01:55 B 0 0:00:28 B 0 0:00:28 B 0	0:01:17 0:11:41 ADVISING Ves 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0
System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:53 C c 0:00:59 B b	0:00:45 0:07:00 CCUNTRY CLUB np 0:03:29 A a 0:02:55 B b 0:01:10 B b 0:01:18 C c	0:01:13 0:05:47 PROJECT MANAGER NO 0:00:42 C a 0:00:36 A a 0:00:55 C c 0:00:56 B b	0:00:40 0:08:53 CCUURTRY CLUB ves 0:01:55 A a 0:01:55 B c 0:00:28 B b 0:00:54 C a	0:01:17 0:11:41 ADVISNG W# 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:128 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A
System Des. Total Training System Seen YC #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:58 C c 0:00:59 B b 0:01:20	0:00:45 0:07:00 CCUNTRY CLUB RP 0:03:29 A 0:02:55 B b 0:01:18 B b 0:01:18 C c 0:00:25	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55 C = 0:00:36 B b 0:00:55	0:00:40 0:06:53 COUNTRY CLUB Y## 0:01:55 B 0 0:01:55 B 0 0:00:28 B b 0:00:54 C a 0:00:39	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A e 0:00:57	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0
System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:58 C c 0:00:59 B b 0:01:20 A c	0:00:45 0:07:00 CCUNTRY CLUB PP 0:03:29 A 0:02:56 B 0:01:10 B 0:00:45 C c 0:00:28 C c	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:55 A =	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:55 B 0 0:00:28 B b 0:00:54 C a 0:00:54 C c	0:01:17 0:11:41 ADVISING VIE 0:02:22 C b 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:12 B b 0:01:12 B b 0:01:28 A a 0:00:57 B a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B
System Des. Total Training System Seen YC 41 Time Answer #2 Time Answer #3 Time Answer #4. Time Answer #5 Time Answer #5 Time Answer #5 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49	0:00:45 0:07:00 CCUNTRY CLUB NP 0:03:29 A a 0:02:56 B b 0:01:16 B b 0:00:45 C c 0:00:23 C c	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C a 0:00:36 A a 0:00:55 C c 0:00:55 C c 0:00:55 A a 0:00:59 A a	0:00:40 0:06:53 COLNTRY CLUB ves 0:01:55 B 0 0:00:28 B b 0:00:54 C a 0:00:28 C c 0:00:39 C c 0:01:32	0:01:17 0:11:41 ADVISING VIE 0:02:22 C b 0:02:22 C b 0:01:104 B a 0:01:12 B b 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:53	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:01:0 B B
System Des. Total Training System System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49 B a	0:00:45 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:55 B b 0:01:16 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C a 0:00:36 A a 0:00:55 C c 0:00:56 B b 0:00:56 A a 0:00:59 B b	0:00:40 0:06:53 COLINTRY CLUB V** 0:01:55 B c 0:01:55 B c 0:00:28 C a 0:00:54 C a 0:00:39 C c 0:01:32 A b	0:01:17 0:11:41 ADVISNG W#5 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:53 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:01:0 C B 0:02:2 A A
System Des. Total Training System System Seen YC #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:53 C c 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24	0:00:45 0:07:00 CCLNTRY CLUB RP 0:03:29 A 0:02:55 B b 0:02:55 B b 0:02:55 C c 0:00:45 C c 0:00:23 C c 0:00:22 C c 0:00:22 C c 0:00:22 C c 0:07:00 CCLNTRY CLUB	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:55 A = 0:00:59 B = 0:00:49 B = 0:00:20	0:00:40 0:06:53 COUNTRY CLUB V## 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:33 A a 0:00:28	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:02:2 A A 0:00:4
System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer 46 Time Answer 47 Time Answer 47 Time Answer	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a	0:00:45 0:07:00 CCUNTRY CLUB PP 0:03:29 A 0:02:55 B 0:00:25 B 0:00:25 C 0:00:00:25 C 0:00 C 0:00:25 C 0:00:25 C 0:00 C 0:00:25 C 0:00 C 0 C	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C a 0:00:36 A a 0:00:55 C c 0:00:36 B b 0:00:55 A a 0:00:56 A a 0:00:59 A a	0:00:40 0:06:53 COUNTRY CLUE Yes 0:01:55 B 0 0:00:28 B b 0:00:54 C a 0:00:54 C a 0:00:39 C c 0:00:39 C c 0:00:39 C c 0:00:40 B b	0:01:17 0:11:41 ADVISING VIT 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:57 B a 0:00:28 C c	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:02:2 A A 0:00:4 C C
System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 46 Time Answer 47 Time Answer 48 Time Answer 48 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:20	0:00:45 0:07:00 CCUNTRY CLUB PP 0:03:29 A 0:02:55 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:25 C c 0:00:27 A c 0:01:55 B b 0:00:32	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 B b 0:00:55 A = 0:00:55 A = 0:00:55 A = 0:00:55	0:00:40 0:06:53 COUNTRY CLUE yes 0:01:55 B 0 0:00:28 B b 0:00:54 C a 0:00:54 C c 0:00:39 C c 0:00:132 A b 0:00:40 B b	0:01:17 0:11:41 ADVISING VIE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:53 A a 0:00:28 C c	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:02:2 A A 0:00:4 C C
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System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #8 Time Answer #6 Time Answer #9 Time Answer #9 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:20 A a 0:00:237	0:00:45 0:07:00 CCLNTRY CLUB RP 0:03:29 A 0:02:55 B D 0:01:10 B D 0:01:10 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C 0:00:25 C C C C C C C C C C C C C	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:36 B b 0:00:55 A = 0:00:59 A = 0:00:49 B = 0:00:20 A = 0:00:19 A = 0:00:19	0:00:40 0:06:53 COUNTRY CLUB Y85 A 4 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B b 0:00:49 A c 0:01:55 C a 0:00:28 C a 0:00:29 C a 0:00:28 C a 0:00:28 C a 0:00:28 C a 0:00:28 C a 0:00:29 C a 0:	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:33 A a 0:00:28 C c 0:00:43 C b 0:00:32	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:02:2 A A 0:00:4 C C 0:02:4
System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #5 Time Answer #6 Time Answer #6 Time Answer #7 Time Answer #8 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:20 A a 0:00:237 B b	0:00:45 0:07:00 CCUNTRY CLUB RP 0:03:29 A 0:02:55 B b 0:01:16 B b 0:01:16 C c 0:00:25 C c 0:00:45 C c 0:00:25 C c 0:00 C c 0:00 C c 0:00:25 C c 0:00 C c 0:00 C c 0:00 C c 0 C c 0 C 0 C c 0 C c 0 C C C C C C C C C C C C C C C C C C	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:36 B b 0:00:55 C c 0:00:36 B b 0:00:59 A = 0:00:49 B = 0:00:20 A = 0:00:19 A = 0:00:19 A = 0:03:04 B = 0:03:04	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B b 0:00:49 B c	0:01:17 0:11:41 ADVISING VIT 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:33 A a 0:00:28 C c 0:00:43 C b 0:00:32 B b	0:02:2 0:11:2 ADVISING 70 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:00:4 C C 0:01:1 C C 0:01:1 C C 0:01:1 C C
System Des. Total Training System Seen YC Answer #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #6 Time Answer #6 Time Answer #7 Time Answer #6 Time	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:27 B b 0:00:18	0:00:45 0:07:00 CCUNTRY CLUB PP 0:03:29 A 0:02:56 B 0:01:10 B 0:00:45 C c 0:00:28 C c 0:00 C c 0:00 C c 0:00:28 C c 0:00 C c 0:00 C c 0:00:28 C c 0:00 C c 0 C	0:01:13 0:05:47 PROJECT MANAGER no 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 A = 0:00:55 A = 0:00:55	0:00:40 0:06:53 COLINTRY CLUB V#s 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B b 0:01:04 B c	0:01:17 0:11:41 ADVISING VIE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:12 B b 0:01:12 B b 0:01:57 B a 0:00:57 C c 0:00:28 C c 0:00:43 C b 0:00:51	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:00:2 C C 0:01:1 C C 0:02:4 B C 0:02:4 B C
System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #9 Time Answer #10 Time Answer	0:01:09 0:06:47 PROJECT MANAGER no 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:00:59 B b 0:00:24 0:00:24 A a 0:00:22 A a 0:00:22 A a 0:00:21 C c	0:00:48 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:58 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c 0:00:27 A c 0:00:27 A c 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:58 B b 0:00:59 B a 0:00:49 B a 0:00:19 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB V** 0:01:55 B c 0:00:28 C a 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:132 A b 0:00:49 C c 0:01:04 A a 0:01:04 B c	0:01:17 0:11:41 ADVISNG W#5 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:33 A a 0:00:28 C c 0:00:43 C b 0:00:43 C b 0:00:51 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:01:1 C C 0:02:4 A C
System Des. Total Training System System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:01:09 0:06:47 PROJECT MANAGER re 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:24 B a 0:00:22 B a 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:23 C c 0:00:22 C c 0:00:23 C c 0:00:22 C c 0:00:	0:00:45 0:07:00 CCUNTRY CLUB PP 0:03:29 A 0:02:56 B 0:01:10 B 0:00:45 C c 0:00:28 C c 0:00 C c 0:00 C c 0:00:28 C c 0:00 C c 0:00 C c 0:00:28 C c 0:00 C c 0 C	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C a 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:56 B b 0:00:58 B a 0:00:59 B a 0:00:20 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB V## 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B c 0:00:49 C a 0:00:49 C a 0:00:49 C a	0:01:17 0:11:41 ADVISNG VMF 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:28 C c 0:00:43 C b 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a 0:00:51 C b	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:01:1 C C 0:02:4 A C
System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time #5 Tim	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:237 B b 0:00:2137 B b 0:00:18 C c 0:00:237 B b 0:00:18 0:00:237 B b 0:00:237 B b	0:00:48 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:58 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c 0:00:27 A c 0:00:27 A c 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:58 B b 0:00:59 B a 0:00:49 B a 0:00:19 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:00:39 C c 0:00:49 B b 0:00:49 B b 0:00:49 C a 0:00:49 C a 0:00:49 C c 0:00:49 C c 0:00:49 C c 0:00:40 C c 0:00:39 C c 0:00:40 C c 0:00:54 C c 0:00:40 C c 0:00:54 C c 0:00:49 C c 0:00:40 C c 0:00:40	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:57 B a 0:00:28 C c 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:01:1 C C 0:02:4 A C
System Des. Total Training System System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #5 Time #5	0:01:09 0:06:47 PROJECT MANAGER re 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:24 B a 0:00:22 B a 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:23 C c 0:00:22 C c 0:00:23 C c 0:00:22 C c 0:00:	0:00:48 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:58 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c 0:00:27 A c 0:00:27 A c 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:58 B b 0:00:59 B a 0:00:49 B a 0:00:19 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB V** 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B c 0:00:49 C a 0:00:49 C a 0:00:49 C a	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:57 B a 0:00:28 C c 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:01:1 C C 0:02:4 A C
System Des. Total Training System System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:237 B b 0:00:2137 B b 0:00:18 C c 0:00:237 B b 0:00:18 0:00:237 B b 0:00:237 B b	0:00:48 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:58 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c 0:00:27 A c 0:00:27 A c 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:58 B b 0:00:59 B a 0:00:49 B a 0:00:19 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:00:39 C c 0:00:49 B b 0:00:49 B b 0:00:49 C a 0:00:49 C a 0:00:49 C c 0:00:49 C c 0:00:49 C c 0:00:40 C c 0:00:39 C c 0:00:40 C c 0:00:54 C c 0:00:40 C c 0:00:54 C c 0:00:49 C c 0:00:40 C c 0:00:40	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:57 B a 0:00:28 C c 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:02:4 B C
System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #6 Time Answer #7 Time Answer #7 Time Answer #6 Time Answer #0 Time Answer #1 Time Answer #1 Time Answer #1 Time Answer #2 Time Answer #2 Time Answer #3 Time Answ	0:01:09 0:06:47 PROJECT MANAGER re 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:24 B a 0:00:24 A a 0:00:22 A a 0:00:237 B b 0:00:18 C c 0:00:237 B b 0:00:18 C c 0:00:237 C a 0:00:237 C a 0:00:248 C a 0:00:258 C a 0:00:258	0:00:45 0:07:00 CCLNTRY CLUB RP 0:03:29 A 0:02:55 B 0:02:55 B 0:02:55 C 0:00:45 C 0:00:45 C 0:00:27 A 0:00:28 C 0:00:27 A 0:00:25 C C 0:00:25 C 0:00	0:01:13 0:05:47 PROJECT MANAGER No 0:00:42 C = 0:00:36 A = 0:00:55 C c 0:00:55 C c 0:00:55 A = 0:00:55 A = 0:00:55 A = 0:00:49 B = 0:00:20 A = 0:00:19 A = 0:00:19 A = 0:00:24 A = 0:00:25 A = 0:00:26 A = 0:00:26	0:00:40 0:06:53 COUNTRY CLUB V## 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:01:32 A b 0:00:49 B b 0:01:04 B b 0:01:04 B c 0:01:04 S c 0:01:40 C a 0:01:32 C c 0:01:32 C c 0:01:32	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:33 A a 0:00:28 C c 0:00:43 C b 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a 0:00:12 B b 0:00:28 C c 0:00:28 C	0:02:2 0:11:2 ADVISING 0 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:01:0 B B 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:02:4 B C 0:02:4 B C 0:02:5 S
System Des. Total Training System System System Answer #1 Time Answer #3 Time Answer #3 Time Answer #4 Time Answer #5 Time #5 Tim	0:01:09 0:06:47 PROJECT MANAGER NO 0:01:05 C a 0:00:53 A a 0:00:59 B b 0:01:20 A c 0:00:59 B b 0:01:20 A c 0:00:49 B a 0:00:24 A a 0:00:237 B b 0:00:2137 B b 0:00:18 C c 0:00:237 B b 0:00:18 0:00:237 B b 0:00:237 B b	0:00:48 0:07:00 CCLNTRY CLUB PP 0:03:29 A a 0:02:58 B b 0:01:10 B b 0:00:45 C c 0:00:25 C c 0:00:27 A c 0:00:27 A c 0:00:27 A c 0:00:22 B b 0:00:22 C c 0:00:22 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20 C c 0:00:20	0:01:13 0:05:47 PROJECT MANAGER PO 0:00:42 C = 0:00:55 C c 0:00:55 C c 0:00:56 B b 0:00:58 B b 0:00:59 B a 0:00:49 B a 0:00:19 A a 0:00:19 A a 0:00:19 A a 0:00:24 C c	0:00:40 0:06:53 COUNTRY CLUB Yes 0:01:55 B c 0:00:28 B b 0:00:54 C a 0:00:39 C c 0:00:39 C c 0:00:49 B b 0:00:49 B b 0:00:49 C a 0:00:49 C a 0:00:49 C c 0:00:49 C c 0:00:49 C c 0:00:40 C c 0:00:39 C c 0:00:40 C c 0:00:54 C c 0:00:40 C c 0:00:54 C c 0:00:49 C c 0:00:40 C c 0:00:40	0:01:17 0:11:41 ADVISING VINE 0:02:22 C b 0:01:04 B a 0:01:12 B b 0:01:28 A a 0:00:57 B a 0:00:57 B a 0:00:28 C c 0:00:43 C b 0:00:51 A a 0:00:51 A a 0:00:51 A a	0:02:2 0:11:2 ADVISING no 0:02:1 C B 0:01:0 B A 0:00:5 B C 0:02:0 A A 0:02:0 A A 0:02:2 A A 0:00:4 C C 0:01:1 C C 0:02:4 B C

	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	NUMBER 18
HOS						
Othelio Des.	0:00:58	0:00:41	0:00:29	0:00:24	0:00:28	0:05:
HOS training	0:05:34			0:07:37		0:04:
System Des.	0:01:16			0:00:41		
Total Training	0:07:48	the second s			the second s	
		ADVISING	COUNTRY CLUB	PROJECT MANAGER		PROJECT MANAGE
System	ADVISING	and the second se			the local data and the second s	the second division of
Seen HQS	no	no	V94	no	10	no
#1 Time	0:00:44		0:00:49			
Anewer	C o	C c	AA	Çq	Ab	C a
#2 Time	0:00:34	0:00:26	0:00:41	0:00:47	0:01:29	0:00:
Anawer	Bb	Bb	8 8	A .	Bb	A
#3 Time	0:01:27		0:00:44	0:01:33	0:00:28	0:01;
Anner	8 6	B ¢	8 8	Cc	Bb	Co
#4 Time	0:00:51					
			IC C			
Answer	A 4	Ab		8 0	Co	5 6
#5 Time	0:01:16		0:00:23	0:02:02		
Answer	6	18 b	00	A 1	C	A. 8
#6 Time	0:00:27	0:00:59	0:00:48	0:00:22	0:01:02	0:00:
Answer	A	A .	AA	Bb	A	8 0
#7 Time	0:00:08			0:00:19	0:00:31	0:01:
Anower	Ca	iC a	8 8	A	8 b	A
#8 Time	0:00:13	0:02:15	0:00:44	0:00:35	the second s	the second se
the second s			And in case of the local division of the loc		the second se	
Anner	<u>C o</u>	Ce	A A	At	A 8	AR
#9 Time	0:00:13					0:02:
Anewer	Bb	Bb	8 8	8 10	8 8	8 b
#10 Time	0:01:21	0:04:06	0:00:27	0:01:32	0:00:21	0:05:
Answer	14.6	A	IC C	Co	Ca	Cc
TOTAL Time	0:07:16	the second s	0:06:31	0:08:47		0:15:
the second s			9.99.91	0.00.09	the second s	4.14.
TOTAL Wrong						
HOS Rate						
	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	NUMBER 18
JACKSON						
Othelio Des.	0:00:34	0:03:00	0:01:22	0:00:37	0:01:49	0:02:
JACK training	0:02:51	0:05:14	0:04:13	0:04:26	0:02:40	0:02:
System Des.		0:00:43	0:00:32	0:00:51	0:00:43	0:00:
	0:00:34					
	0:00:34		0.08-07	0.05.54	0:05:12	0.08-
Total Training	0:03:59	0:08:57				
Total Training System	0:03:59 COUNTRY CLUB	0:08:57 PROJECT MANAGER	ADVISING	ADVISING	PROJECT MANAGER	COUNTRYCLUB
Total Training System Seen JACK	0:03:59 COUNTRY CLUB	0:08:57 PROJECT MANAGER	ADVISING	ADVISING	PROJECT MANAGER	COUNTRY CLUB
Total Training System	0:03:59 COUNTRY CLUB NO 0:00:48	0:08:57 PROJECT MANAGER ne 0:00:28	ADVISING VIER 0:00:34	ADVISING np 0:02:03	PROJECT MANAGER 72 0:00:30	COUNTRY CLUB
Total Training System Seen JACK	0:03:59 COUNTRY CLUB	0:08:57 PROJECT MANAGER	ADVISING	ADVISING	PROJECT MANAGER	COUNTRY CLUB
Total Training System Seen JACK #1 Time	0:03:59 COUNTRY CLUB NO 0:00:48	0:08:57 PROJECT MANAGER ne 0:00:28 C c	ADVISING VHI 0:00:34 C C	ADVISING np 0:02:03	PROJECT MANAGER 72 0:00:30 C c	COUNTRY CLUB no 0:02: A a
Total Training System Seen JACK #1 Time Answer	0:03:59 COUNTRY CLUB no 0:00:48	0:08:57 PROJECT MANAGER ne 0:00:28 C c	ADVISING VHI 0:00:34 C C	ADVISING no 0:02:03 C. c	PROJECT MANAGER 72 0:00:30 C c	COUNTRY CLUB no 0:02: A a
Total Training System Seen JACK 41 Time Answer 82 Time Answer	0:03:55 COUNTRY CLUB 100 0:00:43 A s 0:01:43 B b	0:08:57 PROJECT MANAGER ne 0:00:28 C c 0:01:03 A a	ADVISING Vea 0:00:34 C C 0:00:16 B A	ADVISING mo 0:02:03 C. c 0:00:25 B 4	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a	COUNTRY CLUB no 0:02: A a 0:01: B a
Total Training System Seet JACK 41 Time Answer 42 Time Answer 43 Time	0:03:55 CCUNTRY CLB no 0:00:48 A s 0:01:43 B b 0:00:16	0:08:57 PROJECT MANAGER re 0:00:28 C c 0:01:03 A s 0:01:58	A0VISING VER 0:00:34 C C 0:00:19 8 A 0:01:27	ADVISING no 0:02:03 C c 0:00:25 B a 0:00:32	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57	COUNTRY CLUB 100 0:02: A a 0:01: B a 0:00:
Total Training System Seen JACK 41 Time Answer 82 Time Answer 83 Time Answer	0:03:59 CQUNTRY CLUB R0 A 4 0:01:43 B b 0:01:43 B b 0:00:16 B b	0:08:57 PROJECT MANAGER TO 0:00:28 C c 0:01:03 A a 0:01:58 C c	ADVISING VIE 0:00:34 C C 0:00:15 B A 0:01:27 B B	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b	PROJECT MANAGER 72 0:00:50 C c 0:01:06 A a 0:00:57 C c	COUNTRY CLUB re 0:02: A a 0:01: B a 0:00: B b
Total Training System Seen JACK 41 Time Answer 82 Time Answer 83 Time Answer 84 Time	0:03:55 COUNTRY CLUB no 0:00:44 A s 0:01:43 B b 0:00:16 B b 0:00:16 C:00:18	0:08:57 PROJECT MANAGER ne 0:00:28 C c 0:01:58 C c 0:01:58 C c 0:00:58	ADVISING VIEL C C 0:00:34 C C 0:00:18 B A 0:01:27 B B 0:01:04	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:22	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C σ 0:00:26	COUNTRY CLUB no 0:02: A a 0:01: B a 0:00: B b 0:00:
Total Training System Seen JACK #1 Time Answer #2 Time Answer #5 Time Answer #4 Time Answer	0:03:55 COUNTRY CLUB no 0:00:44 A & 0:01:43 B b 0:00:16 B b 0:00:16 C c	0:08:57 PROJECT MANAGER ne 0:00:28 C c 0:01:03 A s 0:01:56 C c 0:00:56 B b	ADVISING VP1 0:00:34 C C 0:00:18 8 A 0:01:27 8 B 0:01:04 A A	ACVISING 10 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:22 A c	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b	COLATRY CLUB Re 0:02: A a 0:01: B a 0:00: B b 0:01: C c
Total Training System Seen JACK 41 Time Answer 82 Time Answer 83 Time Answer 84 Time Answer 85 Time	0:03:55 CCUNTRY CLUB no 0:00:44 A s 0:01:43 B b 0:00:16 B b 0:00:16 C c 0:00:23	0:08:57 PROJECT MANAGER re 0:00:28 C c 0:01:03 A s 0:01:56 C c 0:01:56 C c 0:02:58 B b 0:02:12	ADVISING VPR 0:00:34 C C 0:00:18 B A 0:01:27 B B 0:01:04 A A 0:01:13	ACVISING ng 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:22 A c 0:00:55	PROJECT MANAGER ?? 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:40	COLNTRY CLLB no 0:02: A a 0:01: B a 0:00: B b 0:01: C c 0:00:
Total Training System Seen JACK #1 Time Answer #2 Time Answer #5 Time Answer #4 Time Answer	0:03:55 COUNTRY CLUB no 0:00:44 A & 0:01:43 B b 0:00:16 B b 0:00:16 C c	0:08:57 PROJECT MANAGER ne 0:00:28 C c 0:01:03 A s 0:01:56 C c 0:00:56 B b	ADVISING VP1 0:00:34 C C 0:00:18 8 A 0:01:27 8 B 0:01:04 A A	ACVISING 10 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:22 A c	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:40 A a	COLNTRY CLLB no 0:02: A a 0:01: B a 0:00: B b 0:00: C c 0:09: C c
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Total Training System Seen JACK 41 Time Angever 82 Time Angever 83 Time Angever 84 Time Angever 85 Time Angever 85 Time Angever 85 Time Angever 87 Time	0:03:55 CCUNTRY CLUB no 0:00:44 A & 0:01:43 B b 0:00:14 B b 0:00:14 B b 0:00:14 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:24 C c 0:00:25 C c 0:00 C c 0 C c 0:00 C c 0:00 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c C c 0 C c 0 C C c 0 C C C C C C C C C C C C C C C C C C	0:08:57 PROJECT MANAGER re 0:00:28 C c 0:01:03 A s 0:01:58 C c 0:00:58 B b 0:02:12 A c 0:00:30 B s 0:00:135	ADVISING VE C C 0:00:34 C C 0:00:19 B A 0:01:27 B B 0:01:27 B B 0:01:13 B B 0:00:42 A A 0:00:042	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:32 A c 0:00:55 B b 0:02:05 A a 0:00:15	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:26 B b 0:00:40 A a 0:00:18 B a	COLNTRY CLLB no 0:02: A a 0:01: B a 0:00: B b 0:01: C c 0:00: C c 0:00: A a 0:00:
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Total Training System Seen JACK 41 Time Answer 82 Time Answer 83 Time Answer 84 Time Answer 85 Time Answer 85 Time Answer 85 Time Answer 86 Time Answer 87 Time Answer 86 Time	0:03:59 CQUNTRY CLB 100 0:00:49 A 4 0:01:43 B b 0:00:16 B b 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:01:02 A 4 0:00:11 C c 0:00:11 C c 0:01:02 C c 0:00:11 C c 0:00:11 C c 0:00:11 C c 0:00:12 C c 0:0	0:08:57 PROJECT MANAGER TO 0:00:28 C c 0:01:56 C c 0:00:56 C c 0:00:56 B b 0:02:12 A c 0:01:35 A a 0:01:35 A a 0:01:28	ADVISING VIEL 0:00:34 C C 0:00:18 B A 0:01:27 B B 0:01:04 A A 0:01:13 B B 0:00:42 A A 0:00:08 C C 0:00:41	ACVISING 00 0:02:03 C c 0:00:25 B a 0:00:25 B b 0:00:55 B b 0:00:55 B b 0:00:55 C c 0:00:15 C c	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:26 B a 0:00:18 B a 0:00:29 A a	COLNTRY CLLB no 0:02: A a 0:02: B a 0:00: B b 0:00: C c 0:00: C c 0:00: A a 0:00: B b 0:00: A a 0:02: A a 0:02: C c 0:02: A a 0:02: C c 0:02: A a 0:02: C c 0:00: C c C c 0:00: C c C c 0:00: C c 0:
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Total Training System Seen JACK Answer 22 Time Answer 22 Time Answer 23 Time Answer 24 Time Answer 25 Time Answer 26 Time Answer 27 Time 27 Time Answer 27 Time Answer 27 Time Answer 27 Time Answer 27 Time 27	0:03:59 COUNTRY CLUB no 0:00:44 A 4 0:01:43 B b 0:00:16 B b 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:192 A 4 0:00:11 B b 0:00:11 C c 0:00:12 C c 0:00:12 C c 0:00:12 C c 0:00:14 0:00:16 0:00:16 0:00:10 0:00:	0:08:57 PROJECT MANAGEP TO 0:00:28 C c 0:01:55 C c 0:00:56 B b 0:02:12 A c 0:00:30 B 4 0:01:35 A 4 0:01:28 A 4 0:01:59 B c	ADVISING VIE 0:00:34 C C 0:00:18 B A 0:01:27 B B 0:01:127 B B 0:01:13 B B 0:00:42 A A 0:00:09 C C 0:00:09 C C 0:00:28 B C	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:55 B b 0:00:55 B b 0:00:55 C c 0:00:15 C c 0:00:15 C c 0:00:23 B b 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 B c 0:00:32 B b 0:00:32 B b 0:00:32 B b 0:00:32 B b 0:00:32 B b 0:00:32 B b 0:00:32 B b 0:00:55 B b 0:00:55	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:40 A a 0:00:18 B a 0:00:12 A a 0:00:17 A a 0:00:159 B c	COLMTRY CLLB no 0:02: A a 0:02: B a 0:00: B b 0:00: C c 0:00: C c 0:00: A a 0:00: A a 0:00: A a 0:00: A a 0:00: B b 0:00: B b 0:00: A a 0:00: B b 0:00: B b 0:00: C c 0:00: B b 0:00: B b 0:00: C c 0:00: B b 0:00: B b 0:00: C c 0:00: B b 0:00: B b
Total Training System Seen JACK 41 Time Answer 82 Time Answer 93 Time Answer 94 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 96 Time Answer 97 Time Answer 98 Time Answer 97 Time Answer 99 Time Answer 91 Time Answer 91 Time Answer 93 Time Answer 94 Answer 95 Time Answer 95 Time 97 Time Answer 97	COUNTRY CLUB no 0:00:43 A 4 0:01:43 B 5 0:00:14 B 5 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:41 A 4 0:00:41 C c 0:00:23 C c 0:00:41 C c 0:00:23 C c 0:00:41 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:25 C c	0:08:57 PROJECT MANAGER 102 0:00:28 C c 0:01:03 A a 0:01:58 C c 0:00:56 B b 0:02:12 A c 0:00:30 B a 0:01:28 A a 0:01:28 A a 0:01:28 C c 0:01:31 C c 0:01:31 C c 0:00:30 C c 0:00:30 C c 0:00:30 C c 0:00:30 C c 0:00:30 C c 0:00:56 C c 0:00:55 C c	ADVISING VIEL 0:00:34 C C 0:00:18 B A 0:01:27 B B 0:01:04 A A 0:01:13 B B 0:00:08 C C 0:00:08 C C 0:00:28 B C 0:00:28 B C	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:55 B b 0:00:55 C c 0:00:15 C c 0:00:15 C c 0:00:23 B b 0:00:25 B b 0:00:32 B c 0:00:55 C c 0:00:35 C c 0:00:55 C c 0:	PROJECT MANAGER 72 0:00:30 C c 0:01:06 A a 0:00:57 C c 0:00:26 B b 0:00:40 A a 0:00:18 B a 0:00:12 A a 0:00:159 B c 0:00:53	COLNTRY CLLB no 0:02: A a 0:02: B a 0:00: C c 0:00: C c 0:00: A a 0:00: A a 0:00: A b 0:01: B b 0:02: A b 0:02: A b 0:02: A b 0:02: A b 0:02: A b 0:02: 0:00: 0:02: 0:00: 0:02: 0:00: 0:00: 0:02: 0:00: 0:0
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Total Training System Seen JACK 41 Time Answer 82 Time Answer 93 Time Answer 94 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 95 Time Answer 96 Time Answer 97 Time Answer 98 Time Answer 97 Time Answer 99 Time Answer 91 Time Answer 91 Time Answer 93 Time Answer 94 Answer 95 Time Answer 95 Time 97 Time Answer 97	COUNTRY CLUB no 0:00:43 A 4 0:01:43 B 5 0:00:14 B 5 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:23 C c 0:00:41 A 4 0:00:41 C c 0:00:23 C c 0:00:41 C c 0:00:23 C c 0:00:41 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:45 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:16 C c 0:00:23 C c 0:00:25 C c	0:08:57 PROJECT MANAGER TO 0:00:28 C c 0:01:03 A s 0:01:55 C c 0:00:58 B b 0:02:12 A c 0:00:30 B s 0:01:35 A s 0:01:28 A s 0:01:28 C c 0:00:128 C c 0:00:30 C c 0:00:31 C c	ADVISING VE C C 0:00:34 C C 0:00:19 B A 0:01:27 B B 0:01:27 B B 0:01:27 B B 0:01:13 B D 0:00:42 A A 0:00:04 C C 0:00:04 C C 0:00:20 B C 0:00:20 A A	ACVISING no 0:02:03 C c 0:00:25 B a 0:00:32 B b 0:00:55 B b 0:00:55 A a 0:00:15 C c 0:00:15 C c 0:00:24 A s 0:00:59 A s 0:00:59 A s	PROJECT MANAGER 72 0:00:30 C c 0:00:30 C c 0:00:57 C c 0:00:26 B b 0:00:40 A a 0:00:18 B a 0:00:29 A s 0:00:159 B c 0:00:53 C b 0:00:53 C b 0:00:53 C b	COLMITHY CLLB TRC C 0:02: A a 0:01: B a 0:00: B b 0:01: C c 0:00: C c 0:00: A a 0:00: B b 0:02: A b 0:02: C c 0:00: C

	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	MIMORE IN
WARNIER-ORR	HUMPER 14	INVEDED 19	INVIDEN 10	NVBDER 10	RUMBEN 1/	NUMBER 18
Othello Des.	0:00:27	0:05:54	0:00:14	0:01:06	0:03:23	0:03
WO training	0:05:44					
System Des.	0:00:58					
Total Training System	0:07:09	0:16:50 SAVINGS ACCOUNT		0:08:28		
Seen WO	no	no	Ves	no	no	Ves
#1 Time	0:01:01	0:00:43		0:02:34	0:00:36	0:00
Answer	Bc	ВЬ	B B	8 b	Bb	Bb
#2 Time	0:00:34			0:00:58	0:01:53	0:01:
Answer #3 Time	A & 0:01:09	A a 0:02:09	A A 0:01:20	0:01:09	0:00:46	A 4
Anewer	B a	B 4	8 8	B b	B b	0:01 8 b
#4 Time	0:00:53				0:00:23	0:01
Answer	Db	Dd	DA	Dd	Db	Db
#5 Time	0:01:08			0:02:49	0:01:29	0:03
Answer	Bo	Bc	BC	B	B	Bc
#5 Time	0:02:03		0:00:45 B B	0:01:50	0:00:28	0:01
Answer #7 Time	0:00:20	B b 0:02:20		B b 0:00:37	B b 0:00:32	B b 0:01
Answer	C c	Cc	C C	C o	C a	C c
#8 Time	0:00:57	the second s	0:01:15	0:00:41	0:00:46	0:02
Answer	Bb	ВЬ	BA	8 6	8 c	8 .
#9 Time	0:00:15					0:00
Answer	Bb	Bb	8 B	Bb	Bb	Bb
Answer	0:00:19 C c	0:00:30 C c	0:00:10 C C	0:00:38	0:00:26 C c	0:00 C c
TOTAL Time	0:08:39		the second se		0:08:20	0:15
TOTAL Wrong		2	3	1	3	
WO Rate	3	the second se	2	2	3	
YOURDON-CONSTANTINE	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	NUMBER 18
Othelio Des.	0:00:32	0:00:43	0:02:14	0:02:15	0:01:12	0:02
YC training	0:02:30					0:04
System Des.	0:00:59		0:00:51	0:00:35		0:01
Total Training	0:04:01					
System	PROJECT MANAGER		PROJECT MANAGER		ADVISING	ADVISING
Seen YC #1 Time	0:00:47	0:01:52	0:02:17	0:01:10	0:02:48	0:01
Anewer	C .	A	C A	A a	C c	C c
#2 Time	0:00:31				0:00:25	0:02
Answer	AB	8 6	A A	Ba	8 .	8 4
#3 Time	0:00:10			0:01:10		0:02
Answer	C c	B b	C B 0:01:01	B b 0:01:14	B b	B b 0:01
#4 Time	0:00:36 B b	0:02:12	B C	0:01:14	0:00:25	0:01
Anewer				0:01:15		
Answer #5 Time	0:00:33	0:00:27	0:00:17			Bb
	Ac	Co	0:00:17	Co	Bb	X
#5 Time Answer #6 Time	A c 0:00:20	Co	A A 0:01:28	Co	Bb	0:01
#5 Time Animer #6 Time Animer	A c 0:00:20 B a	C c 0:01:10	A A 0:01:28 B B	C c 0:00:25	B b 0:00:55 A a	0:01
#5 Time Answer #6 Time Answer #7 Time	A c 0:00:20 B a 0:00:20	C e 0:01:10 A = 0:01:23	A A 0:01:28 B B 0:00:28	C c 0:00:25 A a 0:00:19	B b 0:00:55 A a 0:00:13	0:01 A • 0:00
#5 Time Answer Answer #7 Time Answer	A c 0:00:20 B a 0:00:20 A a	C c 0:01:10 A 0:01:23 B b	A A 0:01:28 B B 0:00:28	C c 0:00:25 A a 0:00:19 B b	B b 0:00:55 A a 0:00:13 C c	0:01 A 0:00 C c
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time	A c 0:00;26 B a 0:00:20 A a 0:00:10	C c 0:01:10 A s 0 0:01:23 B b 0 0:01:15	A A 0:01:28 B B 0:00:28 A A 0:01:01	C c 0:00:25 A a 0:00:19 B b	B b 0:00:55 A a 0:00:13 C c 0:00:22	0:01 A 0:00 C c 0:01
#5 Time Answer #6 Time Answer #7 Time	A c 0:00:20 B a 0:00:20 A a	C 0 0:01:10 A 0 0:01:23 B 0 0:01:15 A s	A A 0:01:28 B B 0:00:28 A A 0:01:01	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c	0:01 A a 0:00 C c 0:01 C c
#5 Time Answer #6 Time Answer Answer Answer Answer Answer	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:00:13 B b	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c 0:00:40 B c	0:01 0:00 C c 0:01 C c 0:00 B b
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:30 B b 0:00:37	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c 0:00:40 B c 0:00:24	0:01 A 0:00 C c 0:01 C c 0:00 B b 0:00
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:35 B b 0:00:37 C c	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c 0:00:40 B c 0:00:24 A a	0:01 A C 0:00 C C 0:01 C C 0:00 B b 0:00 A a
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:00:135 B b 0:00:37 C c	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c 0:00:40 B c 0:00:24 A a	0:01 A C 0:00 C C 0:01 C C 0:00 B b 0:00 A a
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time TOTAL Time	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:35 B b 0:00:37 C c 0:05:45	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C 0:09:46 3	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c 1	B b 0:00:55 A a 0:00:13 C c C c 0:00:22 C c 0:00:24 A a 0:00:24 A a 0:07:32 3	0:01 A a 0:00 C c 0:01 C c 0:00 B b 0:00 A a 0:12
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:35 B b 0:00:37 C c 0:05:45	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c 0:08:23	B b 0:00:55 A a 0:00:13 C c C c 0:00:22 C c 0:00:24 A a 0:00:24 A a 0:07:32 3	0:01 A a 0:00 C c 0:01 C c 0:00 B b 0:00 A a 0:12
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time TOTAL Wrong	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:35 B b 0:00:37 C c 0:05:45	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C 0:09:46 3	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c 1	B b 0:00:55 A a 0:00:13 C c 0:00:22 C c 0:00:24 B c 0:00:24 A a 0:07:32 3 5	0:01 A C 0:00 C C 0:01 C C 0:00 B b 0:00 A C 0:00 A C 0:12
#5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time TOTAL Wrong	A c 0:00:20 B a 0:00:20 A a 0:00:10 A a 0:01:35 B b 0:00:37 C c 0:05:45	C c C c C c C c C c C c C c C c	A A 0:01:28 B B 0:00:28 A A 0:01:01 A A 0:01:44 B B 0:00:23 C C 0:09:46 3	C c 0:00:25 A a 0:00:19 B b 0:01:10 A a 0:00:25 B b 0:00:22 C c 1	B b 0:00:55 A a 0:00:13 C c C c 0:00:22 C c 0:00:40 B c 0:00:24 A a 0:07:32 3	0:01 A C 0:00 C C 0:01 C C 0:00 B b 0:00 A C 0:00 A C 0:12

	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
HOS						1000 L
Othelio Des.	0:00:44	0:01:03	0:00:15	0:01:30	0:00:30	0:00:0
HOS training	0:06:01			0:02:38	0:04:39	0:04:3
System Des.	0:00:5		0:00:13	0:00:52	0:00:32	0:01:1
Total Training	0:07:4	0:04:13	0:05:21	0:05:00	0:05:41	0:05:5
System	ADVISING	ADVISING	COUNTRYCLUB	PROJECT MANAGER	COUNTRYCLUB	PROJECT MANAGE
Seen HOS	no	no	no	no	no	10
#1 Time	0:01:3	0:00:48	0:01:21	0:01:08	0:00:43	0:00:4
Answer	Ce	Cc	AA	Ce	A	Cc
#2 Time	0:00:1:		0:01:03	0:01:15	0:01:28	0:00:5
Angerer	Bb	8 .	A B	A a	6 .	A
#3 Time	0:00:41	0:00:39	0:00:50	0:01:12	0:00:23	0:00:3
Anewer	8 6	8 b	8 8	IC c	8 b	Cc
#4 Time	0:00:54					
Anewer	A b	Ab	CC	IB b	C e	Bb
#5 Time	0:01:10					
Anewer	Bb	Bb	CC	A .	C c	0.00.
	0:00:5					0:00:5
#6 Time	and the second se			a second s		the second s
Anerer	A 8	A. 8	A A	8.0	A 4	8 .
#7 Time	0:00:3					
Answer	0 0	0 0	BA	A	Bb	A
#8 Time	0:01:0				0:01:02	0:00:1
Anewer	0.	C a	AB	A	A	A 4
#9 Time	0:00:1					
Anewer	Bb	Bc	8.8	18 6	8 b	6 6
#10 Time	0:01:1					0:00:
Anower	A s	IA a	C A	Cc	Cc	Co
TOTAL Time	0:08:5	5 0:08:00	0:08:47	0:07:25	0:06:12	0:05:
TOTAL Wrong	-	2 3		N 0	1	
HOS Rela		1 2	2	2	1	Contraction of the second
	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
JACKSON						1
	and the second se			in the second		
Othelio Des.	0:00:2	0:00:44	0:00:18	0:00:20	0:00:27	0:00:0
	0:00:2					
JACK training	0:04:1	0:00:40	0:04:10	0:03:16	0:03:38	0:03:4
Othello Des. JACK training System Des. Total Training	0:04:11	0:00:40	0:04:10	0:03:16	0:03:38	0:03:4
JACK training System Des. Total Training	0:04:13 0:00:53 0:05:34	0:00:40 7 0:00:38 0:02:00	0:04:10 0:00:35 0:05:03	0:03:16 0:00:56 0:04:32	0:03:38 0:00:52 0:04:57	0:03:4
JACK training System Des. Total Training System	0:04:11 0:00:5 0:05:34 COUNTRY CLUS	0:00:40 7 0:00:36 8 0:02:00 PROJECT MANAGER	0:04:10 0:00:35 0:05:03 ADVISING	0:03:16 0:00:56 0:04:32 ADVISNG	0:03:38 0:00:52 0:04:57 PROJECT MANAGER	0:03:4 0:00:4 0:04:3 COUNTRY CLUB
JACK training System Des. Total Training System Seen JACK	0:04:1: 0:00:5: 0:05:34 COUNTRY CLUE	0:00:40 0:00:38 0:02:00 PROJECT MANAGER	0:04:10 0:00:35 0:05:03 ADVISING	0:03:16 0:00:56 0:04:32 ADVISING	0:03:38 0:00:52 0:04:57 PROJECT MANAGER	0:03:4 0:00:4 0:04:5 COUNTRY CLUB
JACK training System Des, Total Training System Seen JACK #1 Time	0:04:1: 0:00:5: 0:05:3: COUNTRY CLUB no 0:01:5:	0:00:40 0:00:38 0:02:00 PROJECT MANAGER no 2 0:00:43	0:04:10 0:00:35 0:05:03 ADVISNG 70 0:00:56	0:03:16 0:00:56 0:04:32 ADVISING Inc 0:00:53	0:03:38 0:00:52 0:04:57 PROJECT MANAGER R0 0:00:20	0:03:4 0:00:4 0:04:5 COUNTRY CLUB
JACK training System Des, Total Training System Saen JACK 41 Time Answer	0:04:1: 0:09:5 0:05:5 COUNTRY CLUE no 0:01:5 A s	0:00:40 0:00:38 0:02:00 PROJECT MANAGER no 2 0:00:43 C c	0:04:10 0:00:35 0:05:03 ADVISING 10 0:00:58 C C	0:03:10 0:00:59 0:04:32 ADVISING ne 0:00:53 C b	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c	0:03:4 0:00:4 0:04:3 COUNTRY CLUB no 0:01:3 A a
JACK training System Des, Total Training System Seen JACK #1 Time Answer #2 Time	0:04:1 0:00:5 0:05:3 0:05:3 0:05:3 0:01:5 0:01:5 0:01:5	0:00:40 7 0:00:38 8 0:02:00 PROJECT MANAGER 100 2 0:00:43 C c 0 0:00:16	0:04:10 0:00:35 0:05:03 ADVISING 10 0:00:59 C C 0:00:31	0:03:10 0:00:59 0:04:32 ADVISING np 0:00:53 C b 0:01:48	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11	0:03:4 0:00:4 0:04:3 COLNTRY CLUB no 0:01:3 A a 0:01:1
JACK training System Des, Total Training System Seen JACK #1 Time Anewer #2 Time Anewer	0:04:11 0:00:5 0:05:31 0:05:31 0:05:31 0:05:31 0:01:5 A t 0:00:5 B b	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 2 0:00:43 C 0 0:00:18 A	0:04:10 0:00:35 0:05:03 AOVISING ID 0:00:59 C C 0:00:31 B A	0:03:15 0:00:56 0:04:32 ADVISING me 0:00:53 C b 0:01:46 B b	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A a	0:03:4 0:00:4 0:04:3 COLINEY CLUE no 0:01:3 A a 0:01:1 B b
JACK training System Des. Total Training System Seen JACK #1 Time Answer #2 Time Answer #3 Time	0:04:1: 0:00:5: 0:05:3: 0:05:3: 0:01:5: A & 0:01:5: B b 0:00:5:	0:00:40 0:00:38 0:02:00 PROJECT MANAGEP No 0:00:043 0:00:45 A a 0:00:45	0:04:10 0:00:35 0:05:03 ADVISING 10 0:00:59 C C 0:00:59 0:00:51 B A 0:01:02	0:03:16 0:00:56 0:04:32 ADVISING me 0:00:53 C b 0:01:48 B b 0:00:37	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A s 0:00:58	0:03:4 0:00:4 0:04:3 COLNTRY CLUB ne 0:01:3 A a 0:01:1 B b 0:00:3
JACK training Svetem Des, Total Training Svetem Svetem Svetem Anewer #2 Time Anewer #3 Time Anewer	0:04:1: 0:05:3: 0:05:3: COUNTRY CLUB n9 0:01:5: A t 0:00:5: B b 0:00:2: B b	0:00:40 0:00:38 0:02:00 PHOJECT MANAGER ne 2 0:00:43 0:00:43 0:00:45 A 8 0:00:46 C c	0:04:10 0:00:35 0:05:03 ADVISING R0 0:00:58 C C 0:00:31 B A 0:01:02 B B	0:03:16 0:00:56 0:04:32 ADVISING ne 0:00:53 C b 0:00:53 C b 0:01:46 B b	0:03:38 0:00:52 0:04:57 PROJECT MANAGER R0 0:00:20 C c 0:01:11 A s 0:00:58 C c	0:03:4 0:00:4 0:04:3 COUNTRY CLUB De 0:01:3 A a 0:01:1 B b 0:00:3 B b
JACK training Svetem Des, Total Training Svetem Saen JACK 41 Time Angwer 42 Time Angwer 43 Time Angwer 14 Time	0:04:11 0:00:5 0:05:31 0:05:31 0:01:52 A s 0:01:52 B b 0:00:25 B b 0:00:24 B b 0:00:24	0:00:40 0:00:38 0:02:00 PROJECT MANAGER np 2 0:00:43 C 0 0:00:16 A 0:00:04 C 0 0:00:16 A 0:00:43 C 0 0:00:48 0:00:48	0:04:10 0:00:35 0:05:03 ACVISING ID 0:00:56 C C 0:00:31 B A 0:01:02 B B 0:00:42	0:03:16 0:00:56 0:04:32 ADVISING np 0:00:53 C b 0:00:53 C b 0:01:46 B b 0:00:37 B b 0:00:17	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A s 0:00:58 C c 0:01:12	0:03:4 0:004: 0:04:5 COUNTRY CLUB no 0:01:3 A a 0:01:3 B b 0:00:4 B b 0:00:4
JACK training System Des, Total Training System Saen JACK et Time Answer #3 Time Answer #3 Time Answer #4 Time Answer	0:04:11 0:00:5 0:05:31 0:05:31 0:01:5 A t 0:01:5 A t 0:00:5 B b 0:00:5 B b 0:00:2 C c	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 0:00:43 C c 0:00:16 A a 0:00:048 0:00:18 A a 0:00:43 0:00:48 0:00:48 0:00:48	0:04:10 0:00:35 0:05:03 ADVISING ID 0:00:56 C C 0:00:51 B A 0:00:52 B B 0:00:42 A C	0:03:19 0:00:58 0:04:32 ADVISING me 0:00:53 C b 0:01:46 B b 0:00:37 B b 0:00:17 A 4	0:03:38 0:00:52 0:04:57 PROJECT MANAGER R0 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b	0:03:4 0:00:4 0:04:3 CCUNTRYCLUS ne 0:01:3 A a 0:01:1 B b 0:00:4 B b 0:00:4 C c
JACK training System Des, Total Training System Steen JACK #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:04:11 0:00:5 0:05:31 0:05:31 0:01:51 0:01:51 A & 0:00:51 B b 0:00:21 B b 0:00:22 C c 0:00:51	0:00:40 0:00:36 0:00:36 0:02:00 PROJECT MANAGEP ne 2 0:00:43 C 0 0:00:16 A 0:00:04 0:00:16 A 0:00:16 A 0:00:16 B 0:01:00	0:04:10 0:00:35 0:05:03 ADVISING ID 0:00:58 C C 0:00:59 B A 0:01:02 B B 0:00:42 A C 0:00:27	0:03:10 0:00:56 0:04:32 ADVISING me 0:00:53 C b 0:01:46 B b 0:00:37 B b 0:00:17 A s 0:00:17	0:03:38 0:00:52 0:04:57 PROJECT MANAGER R0 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23	0:03:4 0:00:4 0:04:3 COLINTRY CLUB ne 0:01:3 A a 0:01:1 B b 0:00:3 B b 0:00:4 C c 0:00:4
JACK training Svetem Des, Total Training Svetem Svetem Svetem Anewer 41 Time Anewer 43 Time Anewer 44 Time Anewer 44 Time Anewer 45 Time Anewer	0:04:11 0:00:55 0:05:53 COUNTRY CLUB N9 0:01:55 A g 0:00:51 B b 0:00:21 C c 0:00:51 C c	0:00:40 7 0:00:38 0:02:00 PROJECT MANAGER 0:0 0:0 0:00:43 C 0:00:16 A 0:00:01:00 A	0:04:10 0:00:35 0:05:03 AOVISING TO 0:00:58 C C 0:00:31 B A 0:01:02 B B 0:00:42 A C 0:00:27 B B	0:03:16 0:00:56 0:04:32 ADVISING np 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:57 B b 0:00:57 A 4 0:00:57 B a	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a	0:03:4 0:004:3 0:04:3 COUNTRY CLUB np 0:01:3 A a 0:01:1 B b 0:00:3 B b 0:00:3 C c 0:00:1 C c
JACK training Svetem Des, Total Training Svetem Saen JACK 41 Time Anewer 43 Time Anewer 43 Time Anewer 44 Time Anewer 54 Time Anewer 55 Time	0:04:11 0:00:5 0:05:31 0:05:31 0:01:5 0:01:5 0:00:5 0:00:5 0:00:2 0:00:5 0:00:5 0:00:5 0:00:2	0:00:40 0:00:38 0:02:00 PROJECT MANAGER np 2 0:00:43 C 0 0:00:16 A 0:00:01:63 C 0 0:00:124 0:00:143 C 0 0:00:143 0:00:143 A 0:00:143 A 0:00:143 A 0:00:143	0:04:10 0:00:35 0:05:03 ACVISING ID 0:00:58 C C 0:00:31 B A 0:01:02 B B 0:00:42 A C 0:00:27 B B 0:00:54	0:03:16 0:00:56 0:04:32 ADVISING np 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:57 B b 0:00:57 A 4 0:00:57 B a	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a	0:03:4 0:004:3 0:04:3 COUNTRY CLUB np 0:01:3 A a 0:01:1 B b 0:00:3 B b 0:00:3 C c 0:00:1 C c
JACK training Svetem Des, Total Training Svetem Saen JACK 41 Time Anewer 43 Time Anewer 43 Time Anewer 44 Time Anewer 54 Time Anewer 55 Time	0:04:11 0:00:55 0:05:53 COUNTRY CLUB N9 0:01:55 A g 0:00:51 B b 0:00:21 C c 0:00:51 C c	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 0:00:43 C c 0:00:16 A a 0:00:16 0:00:16 A a 0:00:16 0:00:16 A a 0:00:11:00 A a 0:00:014 B a	0:04:10 0:00:35 0:05:03 ADVISING ID 0:00:56 C C 0:00:31 B A 0:00:58 B B 0:00:42 A C 0:00:54 A B	0:03:19 0:00:59 0:04:32 ADVISING me 0:00:53 C b 0:00:53 C b 0:00:17 B b 0:00:17 A s 0:00:17 B a 0:00:17 A s	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a 0:00:34 B b	0:03:4 0:00:4 0:04:3 CCUNTRYCLUB ne 0:01:3 A a 0:01:1 B b 0:00:4 C c 0:00:4 C c 0:00:4 C c 0:00:4 C c 0:00:1 C c
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JACK training Svetem Des, Total Training Svetem Seen JACK et Time Anewer #2 Time Anewer #3 Time Anewer #4 Time Anewer #5 Time Anewer #5 Time Anewer #6 Time Anewer #7 Time	0:04:11 0:00:5 0:05:31 0:05:31 0:05:31 0:01:5 A s 0:00:5 B b 0:00:5 C c 0:00:2 C c 0:00:5 C c 0:00:5 C c	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 0:00:43 C c 0:00:16 A a 0:00:16 0:00:16 A a 0:00:16 0:00:16 A a 0:00:11:00 A a 0:00:014 B a	0:04:10 0:00:35 0:05:03 ADVISING ID 0:00:56 C C 0:00:31 B A 0:00:58 B B 0:00:42 A C 0:00:54 A B	0:03:19 0:00:59 0:04:32 ADVISING me 0:00:53 C b 0:00:53 C b 0:00:17 B b 0:00:17 A s 0:00:17 B a 0:00:17 A s	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a 0:00:34 B b	0:03: 0:00: 0:04: 0:04: 0:01: A a 0:01: B b 0:00: B b 0:00: C c 0:00: C c 0:00: C c
JACK training Svetem Des, Total Training Svetem Seen JACK 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer 46 Time Answer 47 Time Answer	0:04:11 0:00:55 0:05:53 0:05:53 0:05:53 0:05:53 0:00:55 0:00:55 0:00:55 0:00:21 C c 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 C c 0:00:55 0:	0:00:40 7 0:00:38 0:02:00 PHOLECT MANAGER re 0:00:43 C 0:00:43 C 0:00:43 C 0:00:43 C 0:00:43 C 0:00:43 C 0:00:44 C 0:00:45 C 0:00:46 C 0:00:48 D 0:00:48 D 0:01:04 B 0:00:14 B 0:00:14 A 0:00:14	0:04:10 0:00:35 0:05:03 ADVISING FD 0:00:54 C C 0:00:31 B A 0:01:02 B B 0:00:42 A C 0:00:27 B B 0:00:54 C C 0:00:24 C C	0:03:16 0:00:56 0:04:32 ADVISING np 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 C b 0:00:53 B b 0:00:517 B c 0:00:17 B c 0:00:12 C 0:00:12 C 0	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A s 0:00:58 C c 0:01:12 B b 0:00:23 A s 0:00:24 B b 0:00:23 A s	0:03:4 0:004:3 0:04:3 COUNTRY CLUB np 0:011:3 A a 0:011:3 B b 0:00:3 B b 0:00:4 C c 0:00:1 C c 0:00:1 C c 0:00:3 B b 0:00:3 B b
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JACK training Svetem Des, Total Training Svetem Saen JACK et Time Answer #2 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #5 Time Answer #5 Time Answer	0:04:11 0:00:5 0:05:31 0:05:31 0:05:31 0:05:31 0:05:31 0:00:5 A a 0:00:5 C c 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 A a	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 2 0:00:43 C c 0 0:00:16 A 0 0:00:16 A s 0:00:16 0 0:00:16 A s 0:00:16 0 0:01:00 A s 0:00:14 B b 0:01:00 A s 0:00:14 B a 0:00:14 A s 0:00:14 A s 0:00:14 A s 0:00:14 A s 0:00:14	0:04:10 0:00:35 0:05:03 ACVISING IND C C C C 0:00:56 C C 0:00:58 B 0:00:42 A C 0:00:42 A C 0:00:54 A B 0:00:54 A B 0:00:54 C C 0:00:55 C C	0:03:19 0:00:58 0:04:32 ADV/SIN3 me 0:00:53 C b 0:00:53 C b 0:00:146 B b 0:00:37 B b 0:00:17 A s 0:00:17 B a 0:00:17 C c 0:00:32 C c	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a 0:00:24 B b 0:00:24 B b 0:00:24 A a	COUNTRY CLUB 0:03: 0:04: 0:04: COUNTRY CLUB 100 0:01: A a 0:01: B b 0:00: C c 0:00: C c 0:00: A a 0:01: A a 0:00: A a 0:00: A a 0:00: A a 0:01: A a 0:00: A a 0:00: 0:
JACK training Svetem Des, Total Training Svetem Seen JACK et Time Antever #2 Time Antever #3 Time Antever #4 Time Antever #5 Time Antever #5 Time Antever #7 Time Antever #9 Time Antever #9 Time	0:04:11 0:00:55 0:05:53 0:05:53 0:05:54 0:01:55 0:00:54 0:00:54 0:00:54 0:00:55 0:00:24 0:00:25 0:00:24 0:00:25 0:00:12(0:00:55 0:00:55	0:00:40 7 0:00:38 0:02:00 PROJECT MANAGER 0:0 0:00:43 2 0:00:43 2 0:00:43 2 0:00:43 2 0:00:16 A a 3 0:00:14 C c 0 0:01:00 A a 3 0:00:14 B 0:00:14 B 0:00:14 A 0:00:14 A a 0 0:00:14 A a 0 0:00:25 A a	0:04:10 0:00:35 0:05:03 ADVISING FD 0:00:54 C C 0:00:31 B A 0:00:42 A C 0:00:42 A C 0:00:27 B B 0:00:54 C C 0:00:27 C C 0:00:27 C C 0:00:25 C C	0:03:16 0:00:58 0:04:32 ADVISING np 0:00:53 C b 0:00:53 C b 0:00:37 B b 0:00:17 B a 0:00:17 B a 0:00:17 B a 0:00:17 C c 0:00:32 C c	0:03:38 0:00:52 0:04:57 PROJECT MANAGER ro 0:00:20 C c 0:01:11 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a 0:00:23 A a 0:00:24 B b 0:01:11 A a 0:00:19 A a 0:00:19 A a	CCUNTRY CLUB no CCUNTRY CLUB no CCUNTRY CCU
JACK training Svetem Des, Total Training Svetem Saen JACK 41 Time Answer 63 Time Answer 64 Time Answer 65 Time Answer 65 Time Answer 65 Time Answer 67 Time Answer 69 Time Answer 69 Time Answer 69 Time Answer	0:04:11 0:00:55 0:05:51 0:05:51 0:05:51 0:05:51 0:00:51 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55 0:00:55	0:00:40 7 0:00:38 0:02:00 PHOLECT MANAGER np 2 0:00:43 C 0 0 0:00:43 C 0 0 0:00:16 A 0 0 0:00:16 S 0:00:100 A 0:00:14 B 0:00:14 B 0:00:14 A 0:00:14 A 0:00:14 B 0:00:14 B 0:00:14 B 0:00:15 B 0:00:25 A 0:00:25	0:04:10 0:00:35 0:05:03 ACVISING C C 0:00:58 C C 0:00:31 B A 0:01:02 B B 0:00:42 A C 0:00:27 B B 0:00:24 C C 0:00:25 C B 0:00:25 C B 0:00:25 C C	0:03:16 0:00:50 0:04:32 ADV/SING np 0:00:53 C b 0:00:53 C b 0:00:17 B b 0:00:17 B a 0:00:17 B a 0:00:17 C c 0:00:13 C c 0:00:32 B b	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:01:11 A s 0:00:58 C c 0:01:12 B b 0:00:23 A s 0:00:24 B b 0:00:23 A s 0:00:24 B b 0:00:25 B b	0:03:4 0:00:4 0:00:4 0:04:5 0:00:1 CCUNTRY CLUB np 0:01:1 B b 0:00:5 B b 0:00:6 C c 0:00:1 C c 0:00:1 C c 0:00:1 S b 0:00:3 A a 0:00:3 A a 0:00:5 B b
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JACK training Svetem Des, Total Training Svetem Saen JACK et Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #10 Time Answer	0:04:11 0:00:5 0:05:31 0:05:31 0:05:31 0:05:31 0:05:31 0:00:5 A a 0:00:5 C c 0:00:2 A a 0:00:2 A a 0:00:2 A a 0:00:2 B b 0:00:2 C c 0:00:2 C c C c	0:00:40 0:00:38 0:02:00 PROJECT MANAGER ne 2 0:00:43 C c 0 0:00:16 A a 0 0:01:00 A a 0 0:00:14 B a 0 0:00:14 B a 0 0:00:14 B a 0 0:00:25 A a 0 0:00:25 B b 0 0:00:28 0 0:00:28	0:04:10 0:00:35 0:05:03 ACV/ISING IP C C C C 0:00:58 C C B B 0:00:42 A C 0:00:27 B B 0:00:24 C C 0:00:25 C B 0:00:25 C B 0:00:25 C B 0:00:25 C B 0:00:25 C B	0:03:19 0:00:58 0:04:32 ADV/SIN3 D 0:00:53 C b 0:00:53 C b 0:00:146 B b 0:00:17 A 1 0:00:17 A 1 0:00:17 A 1 0:00:17 C c 0:00:12 C c 0:00:23 B b 0:00:23 B b	0:03:38 0:00:52 0:04:57 PROJECT MANAGER no 0:00:20 C c 0:00:111 A a 0:00:58 C c 0:01:12 B b 0:00:23 A a 0:00:23 A a 0:00:24 B b 0:00:111 A a 0:00:57 B b 0:00:19 C a	COUNTRY CLUB 0:03:4 0:04:3 COUNTRY CLUB 100 0:0113 A a 0:0113 B b 0:0013 C c 0:0014 C c 0:0013 A a 0:0014 C c 0:0013 A a 0:0013 A a 0:0013 A a 0:0013 C c 0:0013 A a 0:0013 C c 0:0013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:00013 C c 0:0013 C c
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WARMER ORS	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
WARNIER-ORR						
Othelio Des.	0:00:26				0:00:51	0:00:1
WO training	0:05:18		the second s		0:05:24	0:04:4
System Des.	0:01:29		0:00:16	0:00:54		the second se
Total Training	0:07:11					
System	PROJECT MANAGER		PROJECT MANAGER	the second s	ADVISING	ADVISING
Seen WO	no	no	no	Yes	no	no
#1 Time	0:01:23			The second se		
Answer	Cc	A 4.	CC	A #	Co	C c
#2 Time	0:00:24					0:01:0
Anawer	AL	8 0	A A	Bb	Bc	Bo
#3 Time	0:02:20					
Answer	Cc	Bb	CC	Bb	Bb	Bb
#4 Time	0:00:21	0:01:35	0:00:22	0:00:23	0:00:25	0:00:1
Answer	Bb	Cc	BB	Cc	A	A
#5 Time	0:00:34	0:00:24	0:00:37	0:00:21	0:00:24	0:00:3
Answer	A 8	C c	A A	Co	Bb	8.4
#6 Time	0:02:16	0:00:12	0:00:11	0:00:38	0:01:21	0:00:3
Anewer	8 6	A	B B	A .	Ac	A
#7 Time	0:00:12	0:00:20	0:00:13	0:00:32	0:00:35	0:00:1
Answer	A a	8 b	AB	Bb	Cc	Co
#8 Time	0:00:14	0:00:30	the second s	0:00:36		
Answer	A	Aq	AA	A	Cc	Cc
#9 Time	0:00:34	0:01:28		0:00:50		0:00:2
Answer	B b	Bb	BA	Bb	B b	B b
#10 Time	0:00:59	0:00:38	0:00:41	0:01:34	0:00:14	0:00:5
Answer	C e	C c	C A	C a	A c	A a
TOTAL Time	0:09:17	0:07:41	0:04:22	0:08:01	0:08:47	
TOTAL Wrong			0:04:22			0:06:1
WO Fate	0	-		0		
WO Falle	3	1		2	3	
CURPON CONSTITUTION	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
YOURDON-CONSTANTINE						
Othelio Des.	0:01:06	0:00:53	0:01:26	0:03:45	0:00:41	0:01:3
YC training	0:06:32					
		0:04:47	0:02:46	0:03:02		0:04:3
System Des.	0:01:06	0:00:33	0:00:24	0:01:09	0:00:22	0:01:1
Total Training	0:01:05	0:00:33	0:00:24 0:04:36	0:01:09 0:07:56	0:00:22	0:01:1
Total Training System	0:01:08 0:08:44 SAVINGS ACCOUNT	0:00:33 0:06:13 SAVINGS ACCOUNT	0:00:24 0:04:36 SAVINGS ACCOUNT	0:01:09 0:07:56 SAVINGS ACCOUNT	0:00:22 0:05:40 SAVINGS ACCOUNT	0:01:1 0:07:2 SAVINGS ACCOUN
Total Training System Seen YC	0:01:05 0:08:44 SAVINGS ACCOUNT 09	0:00:33 0:06:13 SAVINGS ACCOUNT	0:00:24 0:04:36 SAVINGS ACCOUNT no	0:01:09 0:07:56 SAVINGS ACCOUNT NO	0:00:22 0:05:40 SAVINGS ACCOUNT	0:01:1 0:07:2 SAVINGS ACCOUN
Total Training System Seen YC #1 Time	0:01:06 0:08:44 SAVINGS ACCOUNT No 0:01:42	0:00:33 0:06:13 SAVINGS ACCOUNT np 0:00:17	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52	0:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:29	0:01:1 0:07:2 SAVINGS ACCOUN no 0:01:1
Total Training System Seen YC #1 Time Answer	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b	0:00:33 0:06:13 SAVINGS ACCOUNT np 0:00:17 B b	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b	0:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:29 B b	0:01:1 0:07:2 SAVINGS ACCOUN NO 0:01:1 B b
Total Training System Seen YC #1 Time Answer #2 Time	0:01:08 0:08:44 SAVINGS ACCOUNT NO 0:01:42 B b 0:01:49	0:00:33 0:06:13 SAVINGS ACCOUNT rp 0:00:17 B b 0:00:44	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B D	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52	0:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:29 B b 0:00:26	0:01:1 0:07:2 SAVINGS ACCOUN no 0:01:1 B b 0:00:3
Total Training System Seen YC #1 Time Answer #2 Time Answer Answer	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:49 A a	0:00:33 0:06:13 SAVINGS ACCOUNT ID 0:00:17 B b 0:00:44 A a	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:01:08 A A	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:50 A e	0:00:22 0:05:40 SAVINGS ACCOUNT No 0:00:29 B b 0:00:26 A c	0:01:1 0:07:2 SAVINGS ACCOUN no 0:01:1 B b 0:00:3 A a
Total Training System Seen YC #1 Time Answer #2 Time	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:49 A s 0:01:00	0:00:33 0:06:13 SAVINGS ACCOUNT PD 0:00:17 B b 0:00:44 A a 0:00:27	0:00:24 0:04:36 SAVINGS ACCOUNT R0 0:00:47 B B 0:01:08 A A 0:00:40	0:01:09 0:07:56 SAVINGS ACCOUNT NO 0:00:52 B b 0:00:50 A s 0:01:24	82:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:28 B b 0:00:26 A c 0:02:00	0:01:1 0:07:2 SAVINGS ACCOUN no 0:01:1 B b 0:00:3 A a 0:01:2
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer	0:01:06 0:08:44 SAVINGS ACCOUNT Nº 0:01:42 B b 0:01:49 A s 0:01:00 B b	0:00:33 0:06:13 SAVINGS ACCOUNT np 0:00:17 B b 0:00:44 A a 0:00:27 B a	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47 B B 0:00:47 B A 0:00:40 B A	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A e 0:01:24 B a	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:29 B b 0:00:26 A c 0:02:00 B b	0:01:1 0:07:2 SAVINGS ACCOUN no 0:01:1 B b 0:00:3 A a
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time	0:01:08 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:42 A a 0:01:00 B b 0:00:46	0:00:33 0:06:13 SAVINGS ACCOUNT np 0:00:17 B b 0:00:44 A a 0:00:27 B a	0:00:24 0:04:36 SAVINGS ACCOUNT np 0:00:47 B B 0:00:47 B B 0:00:40 B A 0:00:19	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:50 A e 0:01:24 B a	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:29 B b 0:00:26 A c 0:02:00 B b	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer	0:01:06 0:08:44 SAVINGS ACCOUNT Nº 0:01:42 B b 0:01:49 A s 0:01:00 B b	0:00:33 0:06:13 SAVINGS ACCOUNT np 0:00:17 B b 0:00:44 A a 0:00:27 B a	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47 B B 0:00:47 B A 0:00:40 B A	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A e 0:01:24 B a	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:29 B b 0:00:26 A c 0:02:00 B b	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #4 Time	0:01:08 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:42 A a 0:01:00 B b 0:00:46	0:00:33 0:06:13 5AVINGS ACCOUNT fp 0:00:17 B b 0:00:44 A a 0:00:27 B a 0:00:27 D b	0:00:24 0:04:36 SAVINGS ACCOLINT ne 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:19 D A	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:24	0:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:01:27 D d	0:01:1 0:07:2 SAVINGS ACCOUN IN 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 D a
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #4 Time	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A s 0:01:00 B b 0:00:46 D b	0:00:33 0:06:13 5AVINGS ACCOUNT fp 0:00:17 B b 0:00:44 A a 0:00:27 B a 0:00:27 D b	0:00:24 0:04:36 SAVINGS ACCOLINT ne 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:19 D A	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:55 A a 0:01:24 B a 0:01:21 D d	0:00:22 0:05:40 SAVINGS ACCOUNT NO 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:01:27 D d	0:01:1 0:07:2 SAVINGS ACCOUN IN 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 D a
Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 55 Time	0:01:06 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b	0:00:33 0:06:13 SAVINGS ACCOUNT RD 0:00:17 B b 0:00:14 A a 0:00:27 B a 0:00:24 D b 0:00:24 B b	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47 B B 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:27 B B	0:01:09 0:07:56 SAVINGS ACCOUNT NO 0:00:52 B b 0:00:50 A a 0:01:24 B 0:01:24 B 0:01:24 B 0:00:42 B b	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:28 B b 0:00:28 A c 0:02:00 B b 0:01:27 D d 0:01:25 B b	0:01:1 0:07:2 SAVINGS ACCOUM No 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 D a 0:01:3 B b
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer 95 Time Answer 96 Time	0:01:08 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:26	0:00:33 0:06:13 SAVINGS ACCOUNT RD 0:00:17 B b 0:00:24 A a 0:00:27 B a 0:00:27 B a 0:00:24 D b 0:01:42 B b	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:19 D A 0:00:27 B B 0:00:42	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:01 D d 0:00:42	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:02:00 B b 0:01:27 D d 0:01:25 B b 0:01:34	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 D a 0:01:0 B b
Total Training System Saen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A s 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:26 A s	0:00:33 0:06:13 5AVINGS ACCOUNT fp 0:00:17 B b 0:00:44 A a 0:00:27 B a 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:35 A c	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:40 B A 0:00:19 D A 0:00:27 B B 0:00:42 A C	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A s 0:01:24 B s 0:01:01 D d 0:00:42 B b 0:00:28 A s	0:00:22 0:05:40 SAVINGS ACCOUNT P0 0:00:29 B b 0:00:26 A c 0:00:26 B b 0:01:27 D d 0:01:27 D d 0:01:27 B b 0:01:23 A a	0:01:1 0:07:2 SAVINGS ACCOUN IN 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 D a 0:01:3 B b 0:01:3 A a
Total Training System Seen YC 41 Time Answer 43 Time Answer 43 Time Answer 44 Time Answer 55 Time Answer 96 Time Answer 97 Time	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:42 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:50 B b 0:00:26 A a 0:01:21	0:00:33 0:06:13 SAVINGS ACCOUNT PD 0:00:17 B b 0:00:44 A a 0:00:27 B a 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:38 A c	0:00:24 0:04:36 SAVINGS ACCOUNT DP 0:00:47 B B 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:27 B B 0:00:42 A C 0:00:37	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:01 D d 0:00:42 B b 0:00:28 A a 0:00:28	0:00:22 0:05:40 SAVINGS ACCOUNT P0 0:00:29 B b 0:00:28 A c 0:02:00 B b 0:01:27 D d 0:01:25 B b 0:01:25 B b 0:01:34 A a 0:00:29	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 A a 0:00:3 A a 0:00:3
Total Training System System Seen YC 41 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:42 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:26 A a 0:01:21 C c	0:00:33 0:06:13 SAVINGS ACCOUNT PD 0:00:17 B b 0:00:27 B a 0:00:27 B a 0:00:24 D b 0:00:27 B a 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:36 A c 0:00:36 C c	0:00:24 0:04:36 SAVINGS ACCOUNT PP 0:00:47 B B 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:27 B B 0:00:42 A C 0:00:37 C C	0:01:09 0:07:56 SAVINGS ACCOUNT NO 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:24 B b 0:00:28 A a 0:00:28 C c	0:00:22 0:05:40 SAVINGS ACCOUNT NO B b 0:00:28 A c 0:00:28 A c 0:02:00 B b 0:01:27 D d 0:01:25 B b 0:01:25 B b 0:01:34 A a 0:00:29 C c	0:01:1 0:07:2 SAVINGS ACCOUM NO 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 A a 0:00:3 C c
Total Training System Seen YC Answer #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time	0:01:08 0:08:44 SAVINGS ACCORNT NO 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:20 A a 0:01:21 C c 0:00:29	0:00:33 0:06:13 SAVINGS ACCOUNT RD 0:00:17 B b 0:00:27 B a 0:00:27 B a 0:00:27 B a 0:00:27 B a 0:00:27 B a 0:00:27 C c 0:00:09 C c	0:00:24 0:04:36 SAVINGS ACCOUNT NO 0:00:47 B B 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:27 B B 0:00:27 B B 0:00:42 A C 0:00:37 C C 0:00:17	0:01:09 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:52 A a 0:01:24 B a 0:01:24 B a 0:00:42 B b 0:00:28 A a 0:00:28 C c	0:00:22 0:05:40 SAVINGS ACCOUNT no 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:01:27 D d 0:01:25 B b 0:01:25 B b 0:01:25 C c 0:00:29	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:01:3 B c 0:01:3 C c 0:00:3 C c 0:00:3
Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #6 Time Answer #6 Time Answer	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A s 0:01:00 B b 0:00:50 B b 0:00:50 B b 0:00:28 A s 0:01:21 C c 0:00:29 B e	0:00:33 0:06:13 0:06:13 0:00:17 0 0:00:17 0 0:00:24 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:25 0 0:00:35 0 0:00	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:42 A C 0:00:37 C C 0:00:17 B C	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:24 B b 0:00:28 A a 0:00:28 C c 0:00:23 C c	0:00:22 0:05:40 SAVINGS ACCOUNT P0 0:00:29 B b 0:00:29 B b 0:01:25 B b 0:01:25 B b 0:01:25 B b 0:01:34 A a 0:00:29 C c 0:01:15 B b	0:01:1 0:07:2 SAVINGS ACCOUN IN D 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 C c 0:00:3 C c 0:00:3 B b
Total Training System System Seen YC 81 Time Answer 82 Time Answer 83 Time Answer 84 Time Answer 95 Time Answer 96 Time Answer 97 Time Answer 81 Time Answer 96 Time Answer 98 Time	0:01:05 0:08:44 SAVINGS ACCOLAT no 0:01:42 B b 0:01:42 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:50 B b 0:00:26 A a 0:01:21 C c 0:00:29 B e 0:00:23	0:00:33 0:06:13 0:06:13 0:00:17 0 0:00:17 0 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:25 0:00:35 0:00:35 0:00:00 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:35 0:00:44 0:00:35 0:00:44 0:00:35 0:00:44 0:00:35 0:	0:00:24 0:04:36 SAVINGS ACCOUNT DP 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:42 A C 0:00:42 A C 0:00:42 A C	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:52 B b 0:01:24 B a 0:01:01 D d 0:00:28 A a 0:00:28 A a 0:00:28 C c 0:00:23 C c	0:00:22 0:05:40 SAVINGS ACCOUNT P0 0:00:29 B b 0:00:28 A c 0:02:00 B b 0:01:27 D d 0:01:25 B b 0:01:34 A s 0:00:29 C c 0:01:15 B b	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 A a 0:00:3 C c 0:00:3 C c 0:00:3 B b
Total Training System System Seen YC 41 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #9 Time Answer	0:01:05 0:08:44 SAVINGS ACCOUNT no 0:01:42 B b 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:46 D b 0:00:50 B b 0:00:26 A a 0:01:21 C c 0:00:29 B e 0:00:33 C c	0:00:33 0:06:13 SAVINGS ACCOUNT PD 0:00:17 B b 0:00:44 A a 0:00:27 B a 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:24 B b 0:00:24 B b 0:00:24 B b 0:00:24 C c 0:00:142 B b 0:00:142 C c	0:00:24 0:04:36 SAVINGS ACCOUNT PP 0:00:47 B B 0:00:40 B A 0:00:40 B A 0:00:40 B A 0:00:40 B C 0:00:37 C C 0:00:17 B C 0:00:48 C C	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A a 0:01:24 B b 0:01:24 B b 0:00:28 A a 0:00:28 C c 0:00:23 C c	0:00:22 0:05:40 SAVINGS ACCOUNT P0 0:00:29 B b 0:00:28 A c 0:00:28 A c 0:01:27 D d 0:01:27 D d 0:01:27 B b 0:01:27 C c 0:01:15 B b 0:00:29 C c 0:00:21 C c	0:01:1 0:07:2 SAVINGS ACCOUM no 0:01:1 B b 0:001:2 B c 0:001:2 B b 0:001:2 B b 0:001:2 C c 0:000:3 C c 0:000:3 C c 0:000:3 C c
Total Training System System State Answer #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:01:05 0:08:44 SAVINGS ACCOLAT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:50 B b 0:00:50 B b 0:00:50 B b 0:00:28 A a 0:01:21 C c 0:00:29 B e 0:00:33 C c	0:00:33 0:06:13 5AVINGS ACCOUNT fp 0:00:17 B b 0:00:24 A a 0:00:27 B a 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:24 D b 0:00:38 A c 0:00:38 A c 0:00:38 A c 0:00:38 A c 0:00:38 A c 0:00:38 A c 0:00:39 C c 0:00:19 C c 0:00:19 C c 0:00:20 C c 0:00:21 C c 0:00:22	0:00:24 0:04:36 SAVINGS ACCOLINT ne 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:19 D A 0:00:27 B B 0:00:42 A C 0:00:42 A C 0:00:17 B C 0:00:48 C C 0:00:48	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:52 A a 0:01:24 B a 0:01:24 B b 0:00:28 A a 0:00:28 A a 0:00:28 C c 0:00:24 B guestion scrolled 0:00:26 C c 0:00:26	0:00:22 0:05:40 SAVINGS ACCOUNT NO B b 0:00:29 A c 0:00:20 B b 0:01:27 D d 0:01:27 D d 0:01:27 D d 0:01:34 A a 0:00:29 C c 0:01:15 B b 0:00:11 C c 0:00:18	0:01:1 0:07:2 SAVINGS ACCOUN NO 0:01:1 B b 0:00:3 A a 0:01:2 B c 0:00:3 C c 0 C c 0:00:3 C c 0 C C C c 0 C C C c 0 C c 0 C C C c 0 C
Total Training System System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:50 B b 0:00:50 B b 0:00:50 B b 0:00:28 A a 0:00:28 A a 0:00:28 C c	0:00:33 0:06:13 0:06:13 0:00:17 0 0:00:17 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:35 0 0:	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:40 B A 0:00:42 A C 0:00:42 A C 0:00:42 A C 0:00:41 B C 0:00:43 C C	0:01:02 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:01 D d 0:00:28 A a 0:00:28 A a 0:00:28 C c 0:00:28 C c 0:00:28 C c	0:00:22 0:05:40 SAVINGS ACCOUNT P 0:00:29 B b 0:00:29 B b 0:01:27 D d 0:01:27 D d 0:01:25 B b 0:01:34 A s 0:00:29 C c 0:01:15 B b 0:00:21 C c 0:00:18 C c	0:01:1 0:07:2 SAVINGS ACCOUN NO 0:001:1 B b 0:001:2 B c 0:001:2 B b 0:001:3 C c 0:000:3 C c 0:000:3 C c 0:000:3 C c
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Total Training System System System Seen YC 31 Time Answer #3 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #8 Time Answer #9 Time Answer #0 Time Answer #10 Time Answer TOTAL Time	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:50 B b 0:00:50 B b 0:00:50 B b 0:00:28 A a 0:00:28 A a 0:00:28 C c	0:00:33 0:06:13 0:06:13 0:00:17 0 0:00:17 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:35 0 0:	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:40 B A 0:00:42 A C 0:00:42 A C 0:00:42 A C 0:00:41 B C 0:00:43 C C	0:01:02 0:07:56 SAVINGS ACCOUNT no 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:01 D d 0:00:28 A a 0:00:28 A a 0:00:28 C c 0:00:28 C c 0:00:28 C c	0:00:22 0:05:40 SAVINGS ACCOLNT P0 B b 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:01:27 D d 0:01:27 D d 0:01:27 C c 0:00:115 B b 0:00:29 C c 0:00:29 C c 0:00:29 C c 0:00:21 15 C c 0:00:11 C c 0:00:11	0:01:1 0:07:2 SAVINGS ACCOUN NO 0:001:1 B b 0:001:2 B c 0:001:2 B b 0:001:3 C c 0:000:3 C c 0:000:3 C c 0:000:3 C c
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Total Training System System System System Answer #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer #10 Time Answer Total, Time	0:01:05 0:08:44 SAVINGS ACCOLNT no 0:01:42 B b 0:01:49 A a 0:01:00 B b 0:00:50 B b 0:00:50 B b 0:00:50 B b 0:00:28 A a 0:00:28 A a 0:00:28 C c	0:00:33 0:06:13 0:06:13 0:00:17 0 0:00:17 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:24 0 0:00:35 0 0:	0:00:24 0:04:36 SAVINGS ACCOUNT no 0:00:47 B B 0:00:47 B A 0:00:40 B A 0:00:40 B A 0:00:42 A C 0:00:42 A C 0:00:42 A C 0:00:41 B C 0:00:43 C C	0:01:09 0:07:56 SAVINGS ACCOUNT n0 0:00:52 B b 0:00:50 A a 0:01:24 B a 0:01:24 B b 0:00:28 A a 0:00:28 A a 0:00:28 C c 0:00:26 C c 0:00:26 C c 0:00:24 1 0:00:26 C c 0:00:27 1 0:00:26 1 0:00:27 1 0:00:28 1 1 1 1 1 1 1 1 1 1 1 1 1	0:00:22 0:05:40 SAVINGS ACCOLNT P0 B b 0:00:29 B b 0:00:26 A c 0:02:00 B b 0:01:27 D d 0:01:27 D d 0:01:27 C c 0:00:115 B b 0:00:29 C c 0:00:29 C c 0:00:29 C c 0:00:21 C c 0:00:21 15 C c 0:00:11 C c 0:00:11	0:01:1 0:07:2 SAVINGS ACCOUN NO 0:001:1 B b 0:001:2 B c 0:001:2 B b 0:001:3 C c 0:000:3 C c 0:000:3 C c 0:000:3 C c
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Professional Spreadsheet Data

INUMBER T	MOMBER 3	NUMBER 3	NUMBER 4	NUMBER 5	NUMBER 6
0.040	0.00.4	0.00.00			
					0:02:5
			and the second se		0:10:0
			0:05:57	0:07:27	0:13:2
SAVINGS ACCOUNT					
					yes
and the second se			the second se	the second s	8.8
			0:00:22	0:01:42	0:01:1
			the second se	A A	AA
	0:01:13	0:01:00	0:00:40	0:01:10	0:01:1
18.6	1B. 8	B.A.	8 b	8 8	BB
		0:01:04	0:00:51	0:01:12	0:01:2
Dd	Db	DB	Dd	D A	DC
0:00:4	0:01:14	0:01:09	0:00:25	0:00:54	0:00:5
Bb	Bc	8 8	Bb	8 8	B B
0:01:0	0:01:20				
18 b	Bb	BC	B b	the second se	BB
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	the second s	and the second se	the second se	the second se	BB
					0:00:2
					CC
0:16:5	0:13:1	0:07:30	0;05:51	0:10:53	0:13:3
	2	5 3	1	1	
	2	2	1	1	
NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	NUMBER 5	NUMBER 6
0:04:1	0:04:3	0:02:57	0:02:00	0:03:39	0:03:3
0:01:5	0:01:0	0:01:05	0:01:35	0:00:23	0:00:1
0:09:2	0:08:2	0:04:40	0:05:45	0:04:37	0:04:1
ADVISING	ADVISING	COUNTRYCLUB	PROJECT MANAGER	COUNTRY CLUB	PROJECT MANAGE
Yes	no	Ves	no	100	Ves
0:00:5	5 0:01:44			0:00:33	
Co	iC c	As	Ce	AA	CC
0:01:0	0:02:4	0:00:24	0:00:32	0:01:07	
			Az		AC
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A a 0:00:1 C c	A s 0:00:50 C c	0:00:24 B B	0:00:16 A. s.	8 8	A A
A a 0:00:1 C c 0:01:0	A s 0:00:50 C c 0:01:10	0:00:24 B B 0:00:37	0:00:16 A. s.	8 8	A A 0:00:3
A a 0:00:11 C c 0:01:0 C c	A s 0:00:50 C c s 0:01:10 C c	0:00:24 B B 0 0:00:37	0:00:16 A s 0:00:12 A s	8 8 0:01:07	A A 0:00:3 A B
A a 0:00:1 C c 0:01:0	A s 0:00:50 C c s 0:01:10 C c	0:00:24 B B 0 0:00:37	0:00:16 A s 0:00:12 A s	B B 0:01:07	A A 0:00:3 A B
A a 0:00:11 C c 0:01:0 C c	A s 0:00:50 C c s 0:01:10 C c	0:00:24 B B 0 0:00:37	0:00:16 A s 0:00:12 A s	B B 0:01:07	A A 0:00:3 A B
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A a 0:00:1 C c 0:01:0 C c 0:00:5 B b 0:01:0	A a 5 0:00:50 C c 6 0:01:10 C c 9 0:00:31 B b 9 0:00:56 A a	0:00:24 B B 0:00:37 A A 0:00:58 B A 0:00:26 C A	0:00:16 A s 0:00:12 A s 0:00:23 B b	B B 0:01:07 A A 0:00:49 B B 0:00:38	A A 0:00:3 A B 0:01:3 B C 0:00:5 C C
	0:05:5- 0:01:2' 0:11:2' 0:11:2' 0:2:12' 0:2:12' 0:2:12' 0:2:12' 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:02:4: 0:00:2:4: 0:00:1:0 0:00:4: 0:00:1:0 0:00:1:0 0:00:1:0 0:00:5: 0:00:5: 0:00:5: 0:00:5: 0:00:1:0 0:00:00:1:0 0:00:1:0 0:00:1:0 0:00:1:0 0:0	0:04:07 0:00:42 0:05:54 0:00:23 0:01:21 0:01:00 0:01:21 0:01:00 0:01:21 0:01:00 0:01:21 0:01:00 0:01:21 0:01:00 0:01:21 0:01:00 0:01:21 0:00:00 0:01:20 0:02:00 0:01:05 0:02:04 0:01:05 0:01:13 B B 4 0:02:43 0:01:13 B B 4 0:00:242 0:01:14 B B 0:00:55 0:01:05 0:01:24 0:01:12 B D 0:01:24 0:01:12 B B B 0:01:12 0:01:24 0:01:01 0:01:12 B B B 0:00:12 0:00:124 0:01:01 0:01:13 0:00:125 0:01:10 0:00:44 0:00:14 0:00:24 0:00:24 0:00:155 0:01:10	0:04:07 0:00:22 0:00:23 0:01:21 0:01:21 0:01:23 0:02:23 0:01:21 0:01:08 0:00:23 0:01:20 0:01:21 0:01:08 0:00:23 0:00:20 SAVINGS ACCOLINT SAVINGS ACCOLINT SAVINGS ACCOLINT SAVINGS ACCOLINT Yes Yes Yes Yes 0:04:05 0:02:09 0:00:40 B c B c B b 0:02:43 0:01:13 0:00:32 A b A b A A 0:02:43 0:01:13 0:01:04 0:02:44 0:01:13 0:01:04 0:02:45 0:00:55 0:00:56 0:01:04 D d D b D B 0:00:107 0:00:57 B b B c B B 0:00:126 0:00:127 0:01:24 0:01:03 0:00:03 0:00:03 C c C c C c 0:00:128 0:00:17 0:01:103 0:00:022 C c 0:00:124 0:00:245	0:04:07 0:00:24 0:00:55 0:00:40 0:05:54 0:05:23 0:09:25 0:04:05 0:01:21 0:01:08 0:00:43 0:01:06 0:11:22 0:03:13 0:10:06 0:05:57 SAVINGS ACCOUNT SAVINGS ACCOUNT SAVINGS ACCOUNT SAVINGS ACCOUNT Yes Yes Yes Yes Yes 0:04:05 0:02:08 0:00:32 0:00:22 A b A b B B 0:01:40 0:02:04 0:00:32 0:00:22 A b A A A 0:02:43 0:01:13 0:01:04 0:00:25 0:00:242 0:01:14 0:01:04 0:00:25 B b B C C D 0:00:242 0:01:26 0:00:37 0:00:27 0:00:25 0:01:26 0:00:27 0:00:27 B b B C C C 0:00:242 0:01:26	0:04:07 0:00:05:4 0:00:05:4 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:25 0:00:27

	NUMBER 1	NUMBER 2	NUMBER \$	NUMBER 4	NUMBER 5	NUMBER 6
WARNIER-ORR				1000000000		In the car y
Othelio Des.	0:03:38	0:00:22	0:00:50	0:00:57	0:00:23	0:00
WO training	0:04:56	0:05:18	0:05:22	0:06:31	0:04:11	0:05
System Des.	0:02:53		0:00:56	0:03:08	0:00:35	0:00
Total Training	0:11:27	0:07:21				
System	COUNTRY CLUB	PROJECT MANAGER		ADVISING	PROJECT MANAGER	COUNTRY CLUB
Seen WO	Yes	Y95	Yes	no	Yes	yes
#1 Time	0:02:52	0:02:02		0:02:37		
Anewer	A	Cc	Cc	Cc	CC	A A
#2 Time	0:02:55	0:00:45	0:01:15	the second s		
Answer	8.	A. a.	8 .	8 .	A A	BA
#3 Time	0:00:35	0:00:49	Contraction of the local division of the loc			
Answer	Bb	C o	Bb	Be	CC	BB
#4 Time	0:01:26		0:00:10	0:00:55		
Answer	Co	Bb	A	A. 8	BB	CA
#5 Time	0:00:22	0:01:09				
Answer	IC c	As	Bb	Bb	A.A	CC
#6 Time	0:01:53			0:00:42		
Answer	A	Bb	A 8	A .	6 B	A A
#7 Time	0:00:27	0:00:39			0:00:17	
Answer	8 b	A .	Cc	Ca	A A	8 8
#8 Time	0:01:05	0:00:48		0:00:53		
Answer	A	A	Ca	Ca	A A	AB
#9 Time	0:01:32	0:00:24	0:00:10			
Answer	Bb	8 6	8 6	8 0	88	BB
#10 Time	0:01:13	0:02:06	0:01:01		and the second se	
Answer	Cc	Cc	Aa	A A	CC	C A
TOTAL Time	0:14:20	0:10:11	0:07:25	0:09:06	0:08:57	0:14
TOTAL Wrong	1	0	2	4	0	-
WO Rate	3	2	2	3		
interest of the second second	NUMBER 1	NUMBER 2	NUMBER 3	NUMBER 4	NUMBER 5	NUMBER 6
YOURDON-CONSTANTIN						
Othelio Des.	0:00:43	0:00:23				
YC training	0:04:37	0:05:54	0:03:36	0:02:19		
System Des.	0:00:58	0:00:46		0:01:17		
Total Training	0:06:18	0:07:03		0:11:53	the second s	
System	PROJECT MANAGER		PROJECT MANAGER		ADVISING	ADVISING
Seen YC	Y#5	VOS	Ves	no	Yes	Yes
#1 Time	0:01:05	0:02:14		0:00:42	0:01:33	0:02
Answer	Cc	A 4	CC	A. 4	CC	CC
#2 Time	0:00:51	0:02:50		0:01:04		0:01
Anawer	A .	Ba	A A	Ba	BA	B A
#3 Time	0:00:38	0:01:22	0:01:44	0:00:27	0:01:02	0:01
Answer	Cc	Bb	CC	8 6	88	B B
	0:01:34	0:01:20		0:00:49	0:00:26	0:00
#4 Time			BB	Co	A A	AA
#4 Time Answer	Bb	and the second se				
#4 Time Answer #5 Time	0:00:41	0:00:20	0:00:27	0:00:28		
#4 Time Answer #5 Time Answer	0:00:41	0:00:20 C c	0:00:27 A A	0:00:28 C c	BA	8.8
#4 Time Answer #5 Time Answer #6 Time	0:00:41 A & 0:00:28	0:00:20	0:00:27 A A 0:00:33	0:00:28	BA	8.8
#4 Time Answer #5 Time Answer &6 Time Acswer	0:00:41 A 4 0:00:28 B 4	0:00:20 C c 0:00:55	0:00:27 A A 0:00:33 B A	0:00:28 C o 0:00:17 A s	B A 0:00:36 A A	B B 0:01
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time	0:00:41 A a 0:00:28 B a 0:00:59	0:00:20 C c 0:00:55 A a 0:00:25	0:00:27 A A 0:00:33 B A 0:00:15	0:00:28 C c 0:00:17 A s 0:00:24	B A 0:00:36 A A 0:00:11	B B 0:01 A A 0:00
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer	0:00:41 A a 0:00:28 B a 0:00:59 A a	0:00:20 C c 0:00:55 A a 0:00:25 B b	0:00:27 A A 0:00:33 B A 0:00:15 A B	0:00:28 C c 0:00:17 A s 0:00:24 B b	B A 0:00:38 A A 0:00:11 C C	B B 0:01 A A 0:00 C C
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time	0:00:41 A a 0:00:28 B a 0:00:59	0:00:20 C c 0:00:55 A a 0:00:25	0:00:27 A A 0:00:33 B A 0:00:15 A B	0:00:28 C c 0:00:17 A a 0:00:24 B b	B A 0:00:36 A A 0:00:11	B B 0:01 A A 0:00 C C
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #5 Time Answer	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:46 A a	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 A b	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:01:18 A b	B A 0:00:36 A A 0:00:11 C C 0:00:21 C B	B B 0:01 A A 0:00 C C 0:00 C C
#4 Time Answer #5 Time Answer #6 Time Activer #7 Time Answer #8 Time Answer #9 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:45 A a 0:00:45 A a	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:01:26 A b 0:01:28	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:01:18 A b 0:00:55	B A 0:00:36 A A 0:00:11 C C 0:00:21 C B 0:00:36	B B 0:01 A A 0:00 C C 0:00 C C 0:00
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:46 A a 0:01:35 B b	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:01:26 A b 0:01:13 B b	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:01:18 A b 0:00:55 B a	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C	B B 0:01 A A 0:00 C C 0:00 C C 0:00 B C
#4 Time Answer #5 Time Answer #6 Time Activer #7 Time Answer #8 Time Answer #9 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:48 A a 0:01:35 B b 0:00:15	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:01:26 A b 0:01:13 B b 0:00:33	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C 0:00:36	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:00:24 B b 0:00:55 B a 0:00:23	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37	B B 0;01 A A 0;00 C C C C 0:00 C C 0:00 B C 0:00
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:46 A a 0:01:35 B b	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:01:26 A b 0:01:13 B b	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C	0:00:28 C c 0:00:17 A a 0:00:24 B b 0:00:24 C c 0:00:23 C c	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:38 B C 0:00:37 A A	B B 0:01 A A 0:00 C C 0:00 C C 0:00 B C
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #9 Time Answer #10 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:48 A a 0:01:35 B b 0:00:15	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:01:26 A b 0:01:13 B b 0:00:33	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:00:23 B C 0:00:36 C C	0:00:28 C c 0:00:17 A a 0:00:24 B b 0:00:24 C c C c	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:38 B C 0:00:37 A A	B B 0;01 A A C C C C 0:00 C C 0:00 B C 0:00 A A
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:46 A a 0:01:35 B b 0:00:15 C c	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 C c 0:00:33 C c	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:00:23 B C 0:00:36 C C	0:00:28 C c 0:00:17 A a 0:00:24 B b 0:00:24 C c 0:00:23 C c	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:38 B C 0:00:37 A A 0:07:51	B B 0:01 A A 0:00 C C 0:00 C C 0:00 B C 0:00 A A
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #10 Time Answer TOTAL Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:46 A a 0:00:46 A a 0:01:35 B b 0:00:15 C c 0:08:52	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 C c 0:12:38 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C 0:00:36 C C 0:07:55	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:00:23 C o 0:00:23 C o 0:06:47 3	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37 A A 0:07:51	B B 0;01 A A 0;00 C C C C 0:00 C C 0:00 B C 0:00 A A 0:11
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:59 A a 0:00:46 A a 0:01:35 B b 0:00:15 C c 0:08:52 1	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 C c 0:12:38 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:59 B C 0:02:55 B C 0:00:36 C C 3	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:00:23 C o 0:00:23 C o 0:06:47 3	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37 A A 0:07:51	B B 0;01 A A 0;00 C C C C 0:00 C C 0:00 B C 0:00 A A 0:11
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:45 A a 0:00:45 B b 0:00:15 C c 0:08:52 1 3	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 C c 0:12:38 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C 0:00:36 C C 0:07:55 3 5	0:00:28 C 0 0:00:17 A a 0:00:24 B b 0:01:18 A b 0:00:55 B a 0:00:23 C c 0:06:47 3 2	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37 A A 0:07:51 4 4	B B 0;01 A A 0;00 C C C C 0:00 C C 0:00 B C 0:00 A A 0:11
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #10 Time	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:59 A a 0:00:46 A a 0:01:35 B b 0:00:15 C c 0:08:52 1	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:00:25 C c 0:12:38 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:59 B C 0:02:55 B C 0:00:36 C C 3	0:00:28 C o 0:00:17 A a 0:00:24 B b 0:00:23 C o 0:00:23 C o 0:06:47 3	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37 A A 0:07:51	B B 0;01 A A 0;00 C C 0;00 C C 0;00 B C 0;00 A A 0;11 Vordon-constati
#4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #9 Time Answer #9 Time Answer #0 Time Answer TOTAL Time TOTAL Time TOTAL Wrong YC Rate	0:00:41 A a 0:00:28 B a 0:00:59 A a 0:00:45 A a 0:00:45 B b 0:00:15 C c 0:08:52 1 3	0:00:20 C c 0:00:55 A a 0:00:25 B b 0:00:25 B b 0:00:25 B b 0:01:26 A b 0:01:28 B b 0:00:33 C c 0:12:38 2 3	0:00:27 A A 0:00:33 B A 0:00:15 A B 0:00:23 A A 0:02:53 B C 0:00:36 C C 0:07:55 3 5	0:00:28 C 0 0:00:17 A a 0:00:24 B b 0:01:18 A b 0:00:55 B a 0:00:23 C c 0:06:47 3 2	B A 0:00:38 A A 0:00:11 C C 0:00:21 C B 0:00:36 B C 0:00:37 A A 0:07:51 4 4	B B 0;01 A A 0;00 C C C C 0;00 C C 0;00 B C 0;00 A A 0;11

	NUMBER 7	NUMBER 6	NUMBER .	NUMBER 10	NUMBER 11	NUMBER 12
HOS						
Othelio Des.	0:00:50	0:03:06	0:00:12	0:00:59	0:00:11	0:0
HOS training	0:05:35	0:02:57	0:03:05	0:03:03	0:05:00	0:03
System Des.	0:00:41	0:00:28	0:00:49	0:00:24	0:00:45	0:00
Total Training	0:07:06					
System	ADVISING	ADVISING	COUNTRY CLUB	PROJECT MANAGER		PROJECT MANA
Seen HOS	no	no	no	10	Y95	Ves
#1 Time	0:00:59	0:00:20	0:00:40	0:00:23	0:01:32	the second s
Anewer	IC c	Ca	A	Cc	A	CC
#2 Time	0:00:29	0:00:15	0:00:46		0:02:52	0:00
Anewer	8 .	B b	8 .	A	Bb	AC
#3 Time	0:00:42	0:00:28	0:00:39		the second se	
Anewer	Bb	8 b	Bb	C c	8 6	CC
#4 Time	0:00:47	0:00:20	0:00:44	0:00:37	0:00:46	
Anewer	A c	A a	Ce	B b	C c	0.0
	the second se	the second s			the second se	0.0
#5 Time	0:00:25		0:00:24	0:00:21		0:0
Answer	Bb	Bb	C c		Cc	A A
#6 Time	0:00:30		0:00:30		the second se	
Anewer	A 8	A #	Ab	8 b	Aa	6 8
#7 Time	0:00:27		0:00:50	and the second se		0:0
Anewer	C c	C	8 6	Aa	8 5	A A
#8 Time	0:00:33	0:00:25	0:00:35	0:00:11	0:01:00	0:0
Anewer	C c	CA	Ab	A	IA b	A A
#9 Time	0:00:16	0:00:08	0:00:40	0:00:13	0:00:29	0:0
Anewer	8 6	6 b	8 ¢	8.0	18. 6	BB
#10 Time	0:01:45	0:00:32		0:00:28	0:00:26	0:0
Anewer	AA	Ab	C a	Co	Cc	C C
TOTAL Time	0:05:51	0:03:45	0:06:28	0:03:41	0:08:20	0:0
TOTAL Wrong						
HOS Rete						
	INIMBER 7	NUMBER 6	NUMBER .	NUMBER 10	NUMBER 11	NUMBER 12
JACKSON					T T	
Othelo Des.	0:00:44	0:01:47	0:02:54	0:00:34	0:01:05	0:0
JACK training	0:04:05		Contraction of the local division of the loc	And and a second se		the second se
System Des.	. 0:00:31					
Total Training	0:05:24					
the second s						SAVINGS ACCO
System		SAVINGS ACCOUNT				and the second se
Seen JACK		no	no	no	Ves	Ves
#1 Time	0:01:20	0:01:24				
			8 6	18 b	8 b	88
Anawer	Bc	8 6				
#2 Time	0:01:31	0:01:24	0:00:49			
#2 Time Anewer	0:01:31 A b	0:01:24	0:00:49	As	As	AA
#2 Time Anomer #3 Time	0:01:31 A b 0:00:57	0:01:24 A s 0:00:45	0:00:49 A a 0:01:28	A	A s 0:01:30	A A 0:0
#2 Time Anewer #3 Time Anewer	0:01:31 A b 0:00:57 B s	0:01:24 A a 0:00:45 B b	0:00:49 A a 0:01:20 B a	A a 0:01:30 B c	A 8 0:01:30 B b	A A 0:0 B B
#2 Time Anomer #3 Time Accurer #4 Time	0:01:31 A b 0:00:57 B a 0:00:32	0:01:24 A a 0:00:45 B b 0:00:20	0:00:49 A a 0:01:20 B a 0:00:10	A a 0:01:30 B c 0:00:10	A a 0:01:30 B b 0:00:31	A A 0:0 B B 0:0
#2 Time Anewer #3 Time Anewer	0:01:31 A b 0:00:57 B a 0:00:32 D b	0:01:24 A a 0:00:45 B b 0:00:20 D b	0:00:49 A a 0:01:28 B a 0:00:19 D a	A a 0:01:30 B c 0:00:10 D a	A a 0:01:30 B b 0:00:30 D d	A A 0:0 0 B B 0 0:0 0 D D
#2 Time Anomer #3 Time Accurer #4 Time	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:36	0:01:24 A a 0:00:45 B b 0:00:20 D b	0:00:49 A a 0:01:28 B a 0:00:10 D a 0:00:10	A a 0:01:30 B c 0:00:10 D a	A a 0:01:30 B b 0:00:30 D d 0:01:11	A A B B C:0 D D 0:0
#2 Time Anomer #3 Time Anomer #4 Time Anomer	0:01:31 A b 0:00:57 B a 0:00:32 D b	0:01:24 A a 0:00:45 B b 0:00:20 D b	0:00:49 A a 0:01:28 B a 0:00:19 D a	A a 0:01:30 B c 0:00:10 D a	A a 0:01:30 B b 0:00:30 D d	A A 0:0 0 B B 0 0:0 0 D D
#2 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:36	0:01:24 A a 0:00:45 B b 0:00:20 D b 0:00:53 B c	D:00:45 A a 0:01:24 B a 0:00:16 D a 0:00:10 B b	A a 0:01:34 B c 0:00:10 D a 0:00:47 B c	A a 0 0:01:36 8 b 0 0:00:36 D d 2 0:01:16 8 b	A A B B C:0 D D C:0 B B C:0 C:0 C:0 C:0 C:0 C:0 C:0 C:0
#2 Time Anewer #3 Time Anewer #4 Time Anewer #5 Time Anewer	0:01:31 A b 0:00:57 B s 0:00:32 D b 0:00:38 B b	0:01:24 A a 0:00:45 B b 0:00:20 D b 0:00:53 B c	D:00:45 A a 0:01:24 B a 0:00:16 D a 0:00:10 B b	A a 0:01:34 B c 0:00:10 D a 0:00:47 B c	A a 0 0:01:36 8 b 0 0:00:36 D d 2 0:01:16 8 b	A A B B C:0 D D C:0 B B C:0 C:0 C:0 C:0 C:0 C:0 C:0 C:0
82 Time Answer 83 Time Answer 84 Time Answer 85 Time Answer 95 Time Answer	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:38 B b 0:01:35	0:01:24 A a 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:14 B c	D:00:45 A a O:01:22 B a D a O:00:16 B b O:00:06 B b O:00:06 B c	A a 0:01:34 B c 0:00:16 D a 0:00:47 B c 0:01:25 B c	A a 0:01:36 B b 0:00:36 D d 0:01:11 B b 5 0:01:12 B b	A A B B O C:0 D D B B C:0 B B C:0 C:0 C:0 C:0 C:0 C:0 C:0 C:0
#2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #6 Time	0:01:31 A b 0:00:57 B s 0:00:32 D b 0:00:38 B b 0:01:35 B c	0:01:24 A a 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:14 B c	D:00:45 A a D:01:22 B a D a D a D a D:00:10 B b D:00:00 B c D:00:00 C:00:07	A s 0:01134 B c 0:000116 D s 0:00047 B c 0:01125 B c 0:00051	A a 0:01:36 B b 0:00:36 D d 0:01:11 B b 5 0:01:12 B b	A A B B O C:0 D D B B C:0 B B C:0 C:0 C:0 C:0 C:0 C:0 C:0 C:0
82 Time Anewer 83 Time Anewer 84 Time Anewer 85 Time Anewer 95 Time Anewer 85 Time Anewer 85 Time Anewer	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:38 B b 0:01:35 B c 0:00:15 C c	0:01:24 A a 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:14 B c 0:00:123 C a	0:00:45 A a 0:01:28 B a 0:00:19 D a 0:00:10 B b 0:00:00 B c 0:00:07 C b	A s 0:01136 B c 0:00116 D a 0:00047 B c 0:00125 B c 0:00157 C c	A a 0:01:36 B b 0:00:36 D d 0:01:11 B b 0:01:12 B b 0:01:12 C c	A A B B C D B B C D B B C C C C
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #7 #7 Time Answer #8 #7 Time Answer #8 #8 Time	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:32 B b 0:01:35 B c 0:00:15 C c 0:00:24	0:01:24 A = 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:123 C = 0:00:23	0:00:45 A 0:01:21 B 0:00:12 D 0:00:12 D 0:00:12 B 0:00:01 B 0:00:10 B 0:00:00 B 0:00:07 C 0:00:07 C 0:00:017	A s 0:01130 B c 0:00110 D a 0:00147 B c 0:01125 B c 0:00151 C c 0:000251	A a 0 0:01:30 B b 0 0:00:31 D d 0 0:01:11 B b 0 0:01:12 B b 0 0:00:22 C c 0 0:00:22	A A B B C C C B B C C C C C C C C C
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #6 #5 Time Answer #6 #6 Time Answer #6 #7 Time Answer #7 #7 Time Answer #7	0:01:31 A b 0:00:57 B s 0:00:35 D b 0:00:35 B b 0:01:35 B c 0:01:35 C c 0:00:15 C c 0:00:24 B b	0:01:24 A = 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:14 B c 0:01:23 C 4 0:00:23 B b	0:00:45 A a 0:01:21 B a 0:00:16 D a 0:00:16 B b 0:00:00 B c 0:00:01 C b 0:00:17 B c	A a 0:01:34 B c 0:00:16 D a 0:00:47 B c 0:00:51 C c 0:00:21 B b	A a 0:01:36 0:00:36 0:00:36 0:01:16 0:01:16 0:01:17 B b 0:00:22 0:0:00:22 B b	A A b 0:0 B B b 0:0 D D B B b 0:0 B B c 0:0 B B
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #7 Time Answer #8 #8 Time Answer #8 #8 Time Answer #8 #9 Time	0:01:31 A b 0:00:57 B s 0:00:32 D b 0:00:38 B b 0:01:35 B c 0:00:15 C c 0:00:125 C c 0:00:24 B b	0:01:24 A s 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:18 B c 0:01:23 C s 0:00:23 B b 0:00:27	0:00:45 A a 0:01:28 B a 0:00:10 D a 0:00:00 B c 0:00:017 B c 0:000:17 B c 0:000:17 B c 0:000:17 B c 0:000:17	A s 0:01:34 B c 0:00:16 D s 0:00:47 B c 0:01:25 B c 0:00:51 C c 0:00:21 B b 0:00:17	A a 0:01:36 B b 0:00:36 D d 0:01:11 B b 0:01:12 B b 0:00:22 B b 0:00:22 B b	A A b 0:0 B B D 0:0 D 0:0 B B C 0:0 C 0:0 B B C 0:0 B 0:0 C 0:0 B 0:0 O 0:0
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #5 Time Answer #6 #7 Time Answer #6 #7 Time Answer #6 #7 Time Answer #7 #8 Time Answer #8 #9 Time Answer #8 #9 Time Answer #9	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:32 B b 0:01:35 B c 0:01:35 C c 0:00:125 B b 0:01:25 B b	0:01:24 A s 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:13 B c 0:01:23 C s 0:00:23 B b 0:00:27 B b	0:00:45 A a 0:01:28 B a 0:00:10 D a 0:000:00 B c 0:00:01 B c	A g 0:01136 B c 0:000116 D a 0:00047 B c 0:00125 C c 0:00025 C c 0:000211 B b	A a 0:01:34 0:01:35 0:00:34 0:01:11 8 b 0:01:12 8 b 0:00:22 8 b 0:00:22 8 b 0:00:24 8 b	A A b 0:0 B B D D D 0:0 B B C 0:0 B 0:0 B 0:0 B 0:0 B 0:0 B B D 0:0 B B D 0:0
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #7 Time Answer #7 #8 Time Answer #8 #8 Time Answer #8 #9 Time Answer #10	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:32 B b 0:01:35 B c 0:00:15 C c 0:00:24 B b 0:01:25 B b 0:01:25 B b	0:01:24 A = 0:00:45 B b 0:00:20 D b 0:00:23 B c 0:01:23 C = 0:00:12 B b 0:00:27 B b 0:00:27	D:00:45 A 0:01:21 B 0:00:12 D 0:00:12 D 0:00:12 D 0:00:01 B 0:00:00 B 0:00:00 C 0:00:01 B 0:00:01 B 0:00:02 B 0:00:02 B 0:00:02	A s 0:01:30 B c 0:00:47 B c 0:00:57 C c 0:00:25 C c 0:00:21 B b 0:00:17 B b 0:00:21 B b 0:00:22	A a 0:01:30 B b 0:00:30 D d 0:01:11 B b 0:00:20 C c 0:00:22 B b 0:00:44 B b 0:00:24	A A b 0:0 B B b 0:0 D D B 0:0 B B C C C 0:0 B 0:0 B 0:0 B 0:0 B 0:0 B 0:0 B 0:0
#2 Time Answer #3 #3 Time Answer #3 #4 Time Answer #3 #5 Time Answer #3 #5 Time Answer #3 #6 Time Answer #3 #7 Time Answer #3 #7 Time Answer #3 #10 Time Answer #10	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:01:35 B b 0:01:35 C c 0:00:14 0:00:24 B b 0:01:25 B b 0:01:35 C c 0:00:24 D b	0:01:24 A = 0:00:45 B b 0:00:20 D b 0:00:23 B c 0:01:23 C = 0:00:23 B b 0:00:27 B b 0:00:27 C c	D:00:45 A 0:01:21 B 0:00:12 D 0:00:12 D 0:00:12 D 0:00:12 D 0:00:10 B 0:00:01 B 0:00:07 C b 0:00:21 0:00:21 B c 0:00:21 C C 0:00:21	A s 0:01:34 B c 0:00:11 D s 0:00:47 B c 0:01:25 C c 0:00:25 C c 0:00:21 B b 0:00:12 C c	A a 0:01:35 B b 0:00:35 D d 0:01:11 B b 0:01:12 B b 0:00:22 B b 0:00:22 B b 0:00:24 C c	A A 5 0:0 B B 5 0:0 D D 0 0:0 B B 5 0:0 B B 6 0:0 B B 5 0:0 B B 5 0:0 B B 5 0:0 B 0:0 B B 5 0:0 C C
#2 Time Answer #3 #3 Time Answer #4 #4 Time Answer #5 #5 Time Answer #6 #7 Time Answer #7 #8 Time Answer #8 #8 Time Answer #8 #9 Time Answer #10	0:01:31 A b 0:00:57 B a 0:00:32 D b 0:00:32 B b 0:01:35 B c 0:00:15 C c 0:00:24 B b 0:01:25 B b 0:01:25 B b	0:01:24 A = 0:00:45 B b 0:00:20 D b 0:00:53 B c 0:00:14 B c 0:00:123 C = 0:00:23 B b 0:00:27 B b 0:00:27 C c	D:00:45 A a 0:01:28 B a 0:00:16 D a 0:00:01 B b 0:00:01 B c 0:00:01 B c 0:000:17 B c 0:000:18 0:000:17 B c 0:000:21 C c 0:00:21	A s 0:01:34 B c 0:00:11 D s 0:00:47 B c 0:01:25 C c 0:00:25 C c 0:00:21 B b 0:00:12 C c	A a 0:01:36 0:01:37 0:00:37	A A 5 0:0 B B 5 0:0 D D 0 0:0 B B 5 0:0 B B 6 0:0 B B 5 0:0 B B 5 0:0 B B 5 0:0 B 0:0 C C C 0:0

	NUMBER 7	NUMBER 8	NUMBER 9	NUMBER 10	NUMBER 1	11	NUMBER	12
WARNIER-ORR								
Othelio Des.	0:00:50	0:01:52	0:00:27	0:00:38	1	0:00:08		0:00:2
WO training	0:05:45	0:01:26				0:05:41		0:05:3
System Des.	0:00:39					0:00:37		0:00:3
Total Training	0:07:14	Contraction of the local division of the loc				0:06:26		0:06:2
System		FROJECT MANAGER		ADVISING	PROJECT M		COUNTRY	
Seen WO	no	10	no	no	yes		Y95	
#1 Time	0:01:09		0:00:15			0:00:57		0:01:1
Answer		Cc	Co	IC c	C c		AA	
#2 Time	0:01:20		0:00:41	and the state of t		0:00:37		0:01:0
Answer	Ba		Ba	8 4			BA	
#3 Time	0:00:21	0:01:44	0:00:42			0:00:34		0:00:4
Anewer	Bb	Ce	Bc	8 6	Cc		BB	
#4 Time	0:01:15	0:00:36				0:00:40		0:00:4
Anewer	Cc	Bb	A	A	Bb	V10V1-1V	CC	0.00.4
#5 Time	0:00:23				the second s	0:01:14		0:00:1
Answer	C c	A b	B b	Bb		0.01.14	CC	0.00.1
	0:00:23					0:00:45	~ ~	0.00.1
An Time	A .	B b		A b	Bb	0.00.42	4.0	0:00;1
Answer 47 Time			A b			0.00.07	A.C.	0.00.
#7 Time	0:00:20					0:00:27		0:00:4
Answer	8 .	A	C 0	C c	AA	0.00.00	BA	0.00.
#8 Time	0:00:31	0:00:14	0:00:24			0:00:28		0:00:4
Anewer	A	A. 4.	Cc	0 0	A		AB	0.00
#9 Time	0:00:31	0:00:33				0:00:25		0:00:5
Answer	<u>B</u> b	8 b	Bb	Bb	Bb		BB	
#10 Time	0:00:37					0:01:40		0:00:3
Answer	Co	Cc	Ab	A 8	Cc		CC	_
TOTAL Time	0:06:50	0:05:45	0:05:12			0:07:47		0:07:2
TOTAL Wrong	2			2				
WO Rate	4			4	4	3		
YOURDON-CONSTAN Othelio Des.	TINE 0:00:31	NUMBER 8 0:02:09				0:00:28	NUMBER	0:00:3
Othelio Des. YC training	1TINE 0:00:31 0:04:22	0:02:09 0:01:18	0:00:36 0:02:07	0:00:16		0:00:28 0:04:28	NUMBER	0:00:3
Othelio Des. YC training System Des.	1TINE 0:00:31 0:04:22 0:00:49	0:02:09 0:01:18 0:00:35	0:00:36 0:02:07 0:00:45	0:00:16 0:02:27 0:00:26		0:00:28 0:04:28 0:00:51	NUMBER	0:00:3 0:04:5 0:00:4
Othelio Des. YC training System Des. Total Training	ITINE 0:00:31 0:04:22 0:00:49 0:05:42	0:02:09 0:01:18 0:00:35 0:04:02	0:00:36 0:02:07 0:00:45 0:03:28	0:00:16 0:02:27 0:00:26 0:03:09		0:00:28 0:04:28		0:00:3 0:04:5 0:00:4
Othelio Des. YC training System Des. Total Training System	TINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGER	0:00:16 0:02:27 0:00:26 0:03:09 COLNTRY CLUB	ADVISING	0:00:28 0:04:28 0:00:51	ADVISING	0:00:3 0:04:5 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC	111NE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEP	0:00:16 0:02:27 0:00:26 0:03:09 COUNTRY CLUB Yes	ADVISING Y88	0:00:28 0:04:28 0:00:51 0:05:47		0:00:3 0:04:5 0:00:4 0:06:2
Othelio Des. YC training System Des. Total Training System System Seen YC #1 Time	111NE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB R0 0:00:36	0:00:36 0:02:07 0:00:45 0:03:28 PPOJECT MANAGEF D0 0:00:47	0:00:16 0:02:27 0:00:26 0:03:09 COUNTRY CLUB Ves 0:00:29	ADVISING Y08	0:00:28 0:04:28 0:00:51	ADVISING	0:00:3 0:04:5 0:00:4 0:06:2
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answar	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c	0:00:16 0:02:27 0:00:26 0:03:09 COLNTRY CLUB V95 0:00:29 A b	ADVISING VOR	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44	ADVISING	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4
Othelic Des. YC training System Des. Total Training System Seen YC 41 Time Answer #2 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c	0:02:09 0:01:18 0:00:35 0:04:02 COLINITRY CLUB R0 0:00:36 A c 0:00:37	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c	0:00:16 0:02:27 0:00:26 0:03:09 COLINTRY CLUB Ves 0:00:29 A b 0:00:25	ADVISING Wes	0:00:28 0:04:28 0:00:51 0:05:47	ADVISING V#3 C B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer &2 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c 0:00:40 A 4	0:02:09 0:01:18 0:00:35 0:04:02 0:04:02 0:00:36 A C 0:00:37 B a	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF NO 0:00:47 C c 0:00:18 A c	0:00:16 0:02:27 0:00:26 0:03:09 COUNTRY CLUB Ves 0:00:29 A b 0:00:25 B 4	ADVISING Yes C c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44	ADVISING Ves C B B A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time	ITINE 0:00:31 0:04:22 0:00:49 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c 0:00:40 A a 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB 10 0:00:36 A c 0:00:37 E a 0:00:39	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGER NO 0:00:47 C c 0:00:13 A c 0:00:19	0:00:16 0:02:27 0:00:28 0:03:09 COLINTRY CLUB ves 0:00:29 A b 0:00:25 B a 0:00:39	ADVISING Yes C c B a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44	ADVISING Ves C B B A	0:00:3
Othelio Des. YC training System Des. Total Training System Soen YC #1 Time Answer #2 Time Answer #3 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c 0:00:47 C c 0:00:44 A a 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:39 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b	0:00:16 0:02:27 0:00:26 0:03:09 COLINTRY CLUB Ves 0:00:29 A b 0:00:25 B 4 0:00:39 B b	ADVISING Wes C c B a B c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30	ADVISING Ves C B B A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4
Othelio Des. YC training System Des. Total Training System System System Answer #1 Time Answer #2 Time Answer #3 Time Answer #4 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c 0:00:47 C c 0:00:24 C c 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COLNTRY CLUB 70 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:45	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:147 C c 0:00:18 C c 0:00:19 C b	0:00:16 0:02:27 0:00:26 0:03:09 COUNTRY CLUB Ves 0:00:29 A b 0:00:25 B a 0:00:39 B b 0:00:51	ADVISING Wes C c B a B c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44	ADVISING Ves C B B A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer	ITINE 0:00:31 0:04:22 0:09:49 0:05:42 PROJECT MANAGER no 0:00:47 C 0:00:40 A 0:00:24 C 0:00:24 C 0:00:24 D:00:59 B	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB R0 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:45 C b	0:00:36 0:02:07 0:00:45 0:03:28 PFIQJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b 0:00:28 B b	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:25 B e 0:00:39 B b 0:00:51 C b	ADVISING Ves C c B a B c A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30	ADVISING Ves C B B A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:5
Othelio Des. YC training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C c 0:00:47 C c 0:00:47 C c 0:00:24 0:00:24 C c 0:00:59 B a 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:45 C b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:18 A c 0:00:19 C b 0:00:28 B b 0:00:28	0:00:16 0:02:27 0:00:26 0:03:09 COUNTRY CLUB Yes 0:00:29 A b 0:00:25 B 4 0:00:39 B b 0:00:51 C b 0:00:11	ADVISING Ves C c B a B c A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30	ADVISING Yes C B B A B B A A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:5
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer	ITINE 0:00:31 0:04:22 0:00:42 0:05:42 0:00:47 PROJECT MANAGER 0:00:47 C C 0:00:44 0:00:47 C C 0:00:47 C 0:00:47 C 0:00:24 0:00:24 0:00:24 0:00:24 A 0:00:24 A 0:00:24 A 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB n0 0:00:36 A C 0:00:37 B a 0:00:37 B a 0:00:39 C b 0:00:45 C b 0:00:25 C c	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGER no 0:00:47 C c 0:00:13 A c 0:00:13 A c 0:00:13 B b 0:00:28 B b	0:00:16 0:02:27 0:00:26 0:03:09 COLINTRY CLUB Yes 0:00:29 A b 0:00:25 B a 0:00:25 B a 0:00:51 C b 0:00:51 C b	ADVISING Ves C c B a B c A a B b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:00:49 0:00:42	ADVISING Ves C B B A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1
Othelio Des. YC training System Des. Total Training System System Answer #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #5 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C C 0:00:24 0:00:47 C C 0:00:24 0:00:24 C 0:00:24 D 0:00:24 C 0:00:24 D 0:00:24 C 0:00:24 D 0:00:24 C 0:00:24	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:39 B b 0:00:45 C b 0:00:25 C c 0:00:27	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C c 0:00:19 C b 0:00:28 B b 0:00:28 A s 0:00:31	0:00:16 0:02:27 0:00:26 0:03:09 COLINTRY CLUB Yes 0:00:29 A b 0:00:25 B a 0:00:25 B a 0:00:51 C b 0:00:51 C b	ADVISING Ves C c B a B c A a B b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30	ADVISING Yes C B B A B B A A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 0:00:24 0:00:24 A 0:00:24 B 0:00:59 B 0:00:38 B 0:00:38	0:02:09 0:01:18 0:00:35 0:04:02 COLNTRY CLUB n0 0:00:36 A c 0:00:37 B b 0:00:45 C b 0:00:25 C c 0:00:17 A s	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b 0:00:28 B b 0:00:28 A a 0:00:31 B b	0:00:16 0:02:27 0:00:26 0:00:29 COLINTRY CLUB Ves 0:00:29 A b 0:00:25 B c 0:00:39 B b 0:00:51 C b 0:00:51 C c 0:00:34 A a	ADVISING ves C c B a B c A a A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:49 0:00:42	ADVISING Yes C B B A B B A A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:5 0:00:4 0:00:1 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #7 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:05:42 PRCJECT MANAGER no no 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 C 0:00:24 C 0:00:59 B a 0:00:38 B 0:00:33 0:00:33	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB R0 0:00:36 A c 0:00:37 B a 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A a 0:00:11	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C c 0:00:19 C b 0:00:28 B b 0:00:28 A s 0:00:31	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:29 B b 0:00:51 C b 0:00:51 C c 0:00:51 C c	ADVISING V93 C c B a B c A a A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:00:49 0:00:42	ADVISING Yes C B B A B B A A B B A A A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answar #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer	ITINE 0:00:31 0:04:22 0:00:42 0:05:42 0:00:49 PROJECT MANAGER 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 C 0:00:24 C 0:00:24 A 0:00:59 B 0:00:38 B 0:00:33 A b	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:37 B a 0:00:37 C b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:11 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:18 A c 0:00:18 A c 0:00:28 B b 0:00:28 B b 0:00:28 A a 0:00:32 A a	0:00:16 0:02:27 0:00:26 0:00:29 0:00:29 A b 0:00:29 A b 0:00:29 A b 0:00:29 A b 0:00:29 A c 0:00:29 A c 0:00:29 B c 0:00:29 C c 0:00:29 C c 0:00:29 C c 0:00:29 C c 0:00:29 C c 0:00:24 C c 0:00:24 C c 0:00:00 C c 0:00:24 C c 0:00:00 C c 0:00 C c 0 C c 0:00 C c 0 C c 0 C 0 C c 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0	ADVISING Ves C c B a B c A a C c C c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:00:49 0:00:42 0:00:42	ADVISING Yes C B B A B B A A B B	0:00:3 0:04:5 0:00:4 0:05:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:49 0:00:24 0:00:49 0:00:24 0:00:24 C 0:00:24 0:00:24 0:00:24 C 0:00:24 0:00:24 0:00:24 B 0:00:59 B 0:00:38 B 0:00:33 A b 0:00:17 0:00:17	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:38 B b 0:00:38 B b 0:00:39 C b 0:00:25 C c 0:00:25 C c 0:00:11 B b 0:00:11 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b 0:00:28 B b 0:00:28 A a 0:00:31 B b	0:00:16 0:02:27 0:00:26 0:00:26 0:00:29 0:00:29 0:00:25 0:00:39 0:00:51 0:00:55 0:00:5	ADVISING Wes C c B a B c A a C c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:49 0:00:42	ADVISING yes C B B A B B A A B B A A C C	0:00:3 0:04:5 0:00:4 0:05:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3
Othelio Des. YC training System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Answer 48 Answer 49 Answer 49 Answer 40 Answer 40 Answer 40 Answer 41 Answer 41 Answer 42 Time Answer 43 Time Answer 43 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer 45 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PRCJECT MANAGER no 0:00:47 C 0:00:24 C 0:00:24 C 0:00:24 D:00:24 0:00:24 A 0:00:24 B 0:00:24 B 0:00:59 B 0:00:38 A 0:00:33 A 0:00:17 A a	0:02:09 0:01:18 0:00:35 0:04:02 COLNTRY CLUB no 0:00:37 6 a 0:00:37 6 a 0:00:38 6 b 0:00:37 6 c 0:00:25 C b 0:00:25 C c 0:00:21 7 A a 0:00:11 8 b 0:00:13 A a	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:31 B b 0:00:32 A c	0:00:16 0:02:27 0:00:26 0:00:29 COLNTRY CLUB ves 0:00:29 A b 0:00:25 B a 0:00:39 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A a 0:00:04 A a	ADVISING ves C c B a B c A a C c C c C b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:49 0:00:42 0:00:24 0:00:24 0:00:24	ADVISING Yes C B B A B B A A B B A A A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:4 0:00:4 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #8 Time Answer #9 Time Answer #9 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:00:49 PRCJECT MANAGER no no 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 D:00:24 0:00:59 B 0:00:58 B 0:000:38 A b 0:00:17 A A 0:00:25	0:02:09 0:01:18 0:00:35 0:04:02 COLNITHY CLUB 70 0:00:37 6 a 0:00:37 6 a 0:00:39 6 b 0:00:45 C b 0:00:25 C c 0:00:17 A a 0:00:11 B b 0:00:33 A a 0:00:19	0:00:36 0:02:07 0:00:45 0:03:28 PFQJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:28 B b 0:00:28 B b 0:00:28 A a 0:00:31 B b 0:00:32 A a 0:00:51	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:25 B c 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A c 0:00:34 A c 0:00:23 A c	ADVISING V05 C c B a B c A a C c C b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:49 0:00:49 0:00:42 0:00:24 0:00:24 0:00:20	ADVISING Vess C B B A B B A A B B C C C A	0:00:3 0:04:5 0:00:4 0:05:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3
Othelio Des. YC training System Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:00:49 PRCJECT MANAGER 0:00:47 C 0:00:47 C 0:00:47 C 0:00:27 C 0:00:24 C 0:00:24 C 0:00:28 B 0:00:38 B 0:00:33 A b 0:00:25 B D:00:25 B	0:02:09 0:01:18 0:00:35 0:02:02 COUNTRY CLUB R0 0:00:36 A c 0:00:37 B a 0:00:37 B a 0:00:37 C b 0:00:45 C b 0:00:45 C c 0:00:25 C c 0:00:17 A a 0:00:19 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:18 A c 0:00:19 C b 0:00:28 B b 0:00:28 B b 0:00:28 A a 0:00:32 A a 0:00:32 A a 0:00:51 B c	COLINTRY CLUB 0:02:27 0:02:26 0:02:26 0:02:26 0:02:29 0:00:29 0:00:29 0:00:25 0:00:39 0:00:51 C b 0:00:51 C c 0:00:11 C c 0:00:34 A a 0:00:23 A a 0:00:23 A b	ADVISING Wes C c B a B c A a C c C c C b B c	0:00:28 0:04:28 0:02:51 0:05:47 0:01:44 0:02:30 0:02:30 0:00:49 0:00:42 0:00:42 0:00:42 0:00:42	ADVISING yes C B B A B B A A B B A A C C	0:00:3 0:04:5 0:00:4 0:06;2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:4 0:00:4 0:00:4 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #1 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #7 Time Answer #8 Time Answer #8 Time Answer #9 Time	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:24 C c 0:00:24 0:00:24 0:00:24 C c 0:00:24 0:00:24 0:00:24 A a 0:00:24 B a 0:00:24 C c 0:00:24 C c 0:00:25 B a 0:00:17 A b 0:00:25 B b 0:00:25	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:25 C c 0:00:21 A a 0:00:11 B b 0:00:13 B b	0:00:36 0:02:07 0:00:45 0:03:28 PRQJECT MANAGEF no 0:00:47 C c 0:00:19 C c 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 C c 0:00:28 C c 0:00:28 C c 0:00:28 C c 0:00:19 C c 0:00:28 C c 0:00:19 C c 0:00:19 C c 0:00:28 C c 0:00:19 C c 0:00:28 C c 0:00:28 C c 0:00:19 C c 0:00:28 C c 0:00:25 C c 0:00:28 C c 0:00:25 C c 0:00:28 C c 0:00:25 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0 C c 0:00 C c 0 C	0:00:16 0:02:27 0:00:26 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:29 0:00:39 0:00:51 0:00:51 0:00:04 0:00:04 0:00:02 0:00:24 0:00:24 0:00:24 0:00:24	ADVISING Wes C c B a B c A a C c C c C b B c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:49 0:00:49 0:00:42 0:00:24 0:00:24 0:00:20	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:4 0:00:4 0:00:4
Othelio Des. YC training System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 48 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 48 Time Answer 49 Time Answer 41 Time Answer 41 Time Answer 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 49 Time Answer 40 Time Answer 40 Time Answer 41 Time Answer 41 Time Answer 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PRCJECT MANAGER no 0:00:47 C c 0:00:47 C C 0:00:47 C c 0:00:47 C C 0:00:47 C c 0:00:24 0:00:24 C c 0:00:24 0:00:24 B 0:00:39 A b 0:00:33 A 0:00:25 B b 0:00:25 B b 0:00:25 B 0:00:25 C	0:02:09 0:01:13 0:00:35 0:00:35 0:00:37 0:00:38 A c 0:00:37 E a 0:00:37 E a 0:00:37 E a 0:00:39 E b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A a 0:00:11 B b 0:00:19 B b 0:00:19 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:26 0:00:26 0:00:29 COLINTRY CLUB Ves 0:00:29 A b 0:00:25 B c 0:00:39 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:23 A c 0:00:23 A c 0:00:23 A c 0:00:23 C c 0:00:23 C c	ADVISING Ves C c B a B c A a C c C b B c A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:42 0:00:42 0:00:42 0:00:24 0:00:25 0:00:50	ADVISING Vess C B B A B B A A B B C C C A	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #6 Time Answer #7 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PROJECT MANAGER no 0:00:24 C c 0:00:24 0:00:24 0:00:24 C c 0:00:24 0:00:24 0:00:24 A a 0:00:24 B a 0:00:24 C c 0:00:24 C c 0:00:25 B a 0:00:17 A b 0:00:25 B b 0:00:25	0:02:09 0:01:18 0:00:35 0:04:02 COUNTRY CLUB no 0:00:36 A c 0:00:37 B a 0:00:39 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:25 C c 0:00:21 A a 0:00:11 B b 0:00:13 B b	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:26 0:00:26 0:00:29 COLINTRY CLUB Ves 0:00:29 A b 0:00:25 B c 0:00:39 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:23 A c 0:00:23 A c 0:00:23 A c 0:00:23 C c 0:00:23 C c	ADVISING Ves C c B a B c A a C c C b B c A a	0:00:28 0:04:28 0:02:51 0:05:47 0:01:44 0:02:30 0:02:30 0:00:49 0:00:42 0:00:42 0:00:42 0:00:42	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2
Othelio Des. YC training System Des. Total Training System Seen YC 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 48 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 47 Time Answer 48 Time Answer 49 Time Answer 41 Time Answer 41 Time Answer 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 48 Time Answer 49 Time Answer 40 Time Answer 40 Time Answer 41 Time Answer 41 Time Answer 41 Time Answer 42 Time Answer 43 Time Answer 44 Time Answer 45 Time Answer 47 Time Answer 48 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:00:49 PRCJECT MANAGER 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 D 0:00:24 C 0:00:59 B 0:00:38 B 0:00:38 B 0:00:17 A 8 0:00:125 B D 0:00:13 C c 0:00:13 C C 0:00:537	0:02:09 0:01:18 0:00:35 0:04:02 COLNITHY CLUB PD 0:00:36 A c 0:00:37 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A s 0:00:11 B b 0:00:19 B b 0:00:14 C c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:15 S c 0:00:17 S c 0:00	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:29 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A a 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:25 A b 0:00:25 B b 0:00:25 A b 0:00:25 B b 0:00:25 C c 0:00:27 A b 0:00:29 B b 0:00:29 C c 0:00:29 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00 C c	ADVISING V05 C c B a B c A a C c C b B c A a C c C b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:42 0:00:42 0:00:42 0:00:24 0:00:25 0:00:50	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #5 Time Answer #7 Time Answer #6 Time Answer #7 Time Answer	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PRCLECT MANAGER no 0:00:47 C 0:00:49 0:00:40 A 0:00:40 A 0:00:24 0:00:24 C 0:00:24 C 0:00:24 B 0:00:59 B 0:00:59 B 0:00:33 A 0:00:25 B 0:00:25 B 0:00:25 B 0:00:217 A a 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:00:213 0:00:013 C 0:00:05:37	0:02:09 0:01:18 0:00:35 0:04:02 COLNITHY CLUB PD 0:00:36 A c 0:00:37 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A s 0:00:11 B b 0:00:19 B b 0:00:14 C c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:15 S c 0:00:17 S c 0:00	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:26 0:00:26 0:00:29 COLINTRY CLUB Ves 0:00:29 A b 0:00:25 B c 0:00:39 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:23 A c 0:00:23 A c 0:00:23 A c 0:00:23 C c 0:00:23 C c	ADVISING V05 C c B a B c A a C c C b B c A a C c C b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:42 0:00:42 0:00:42 0:00:24 0:00:25 0:00:50	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2
Othelio Des. YC training System Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #5 Tim	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:00:49 PRCJECT MANAGER 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 D 0:00:24 C 0:00:59 B 0:00:38 B 0:00:38 B 0:00:17 A 8 0:00:125 B D 0:00:13 C c 0:00:13 C C 0:00:537	0:02:09 0:01:18 0:00:35 0:04:02 COLNITHY CLUB PD 0:00:36 A c 0:00:37 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A s 0:00:11 B b 0:00:19 B b 0:00:14 C c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:15 S c 0:00:17 S c 0:00	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:29 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A a 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:25 A b 0:00:25 B b 0:00:25 A b 0:00:25 B b 0:00:25 C c 0:00:27 A b 0:00:29 B b 0:00:29 C c 0:00:29 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C	ADVISING V05 C c B a B c A a C c C b B c A a C c C b	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:00:42 0:00:42 0:00:42 0:00:24 0:00:25 0:00:50	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2
Othelio Des. YC training System Des. Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 PRCJECT MANAGER no 0:00:47 C 0:00:49 0:00:40 A 0:00:40 A 0:00:24 0:00:24 A 0:00:24 C 0:00:24 B 0:00:59 B 0:00:38 A 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:00:25 B 0:000:25 B 0:000:233 0:000:2537 3 3 3	0:02:09 0:01:18 0:00:35 0:04:02 COLNTRY CLUB no 0:00:37 B 0 0:00:37 B 0:00:37 C 0 0:00:37 C 0 0:00:25 C 0 0 C 0 0:00:25 C 0 C 0 0:25 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0 C 0	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:13 A c 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:31 B b 0:00:32 A c 0:00:51 S c 0:00:51 S c 0:00:51 S c 0:00:32 C c 0:00:51 S c 0:00:32 C c 0:00:28 C c 0:00:38 C c 0:00:55 C c 0:00:38 C c 0:00:55 C c 0:00:38 C c 0:00:55 C c 0:00:38 C c 0:00:55 C c 0:00:38 C c 0:00:55 C c 0:00:38 C c 0:00:55 C c 0	0:00:16 0:02:27 0:00:26 0:00:29 0:00:29 A b 0:00:25 B a 0:00:39 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A a 0:00:34 A a 0:00:23 A a 0:00:24 C c 0:00:29 A b 0:00:25 C c 0:00:29 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0 C c 0 C c 0	ADVISING V95 C c B a B c A a C c C b B c A a C c	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:02:49 0:00:49 0:00:49 0:00:49 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:25 0:00:24 0:00:25 0:00:2	ADVENC Ves C B B A B B A A C C C A B B A A	0:00:3 0:04:5 0:00:4 0:06;2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:4 0:00:4 0:00:4 0:00:4
Othelio Des. YC training System Total Training System Seen YC #1 Time Answer #2 Time Answer #3 Time Answer #3 Time Answer #5 Tim	ITINE 0:00:31 0:04:22 0:00:49 0:05:42 0:00:49 PRCJECT MANAGER 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:47 C 0:00:24 D 0:00:24 C 0:00:59 B 0:00:38 B 0:00:38 B 0:00:17 A 8 0:00:125 B D 0:00:13 C c 0:00:13 C C 0:00:537	0:02:09 0:01:18 0:00:35 0:04:02 COLNITHY CLUB PD 0:00:36 A c 0:00:37 B b 0:00:45 C b 0:00:25 C c 0:00:25 C c 0:00:17 A s 0:00:11 B b 0:00:19 B b 0:00:14 C c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:14 S c 0:00:15 S c 0:00:17 S c 0:00	0:00:36 0:02:07 0:00:45 0:03:28 PROJECT MANAGEF no 0:00:47 C c 0:00:19 C b 0:00:19 C b 0:00:28 A c 0:00:28 A c 0:00:28 A c 0:00:25 A c 0:00:51 B c 0:00:51 B c 0:00:51	0:00:16 0:02:27 0:00:28 0:00:28 0:00:29 COLNTRY CLUB Ves 0:00:29 A b 0:00:29 B b 0:00:51 C b 0:00:51 C b 0:00:51 C c 0:00:34 A a 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 B b 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:23 A a 0:00:24 A a 0:00:25 A b 0:00:25 B b 0:00:25 A b 0:00:25 B b 0:00:25 C c 0:00:27 A b 0:00:29 B b 0:00:29 C c 0:00:29 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00:20 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0:00 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C c 0 C	ADVISING V05 C c B a B c A a C c C b B c A a	0:00:28 0:04:28 0:00:51 0:05:47 0:01:44 0:00:51 0:02:30 0:02:30 0:02:49 0:00:49 0:00:49 0:00:49 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:24 0:00:25 0:00:24 0:00:25 0:00:2	ADVISING yes C B B A B B A A B B A A C C C A B B	0:00:3 0:04:5 0:00:4 0:06:2 0:04:4 0:00:4 0:00:4 0:00:5 0:00:4 0:00:1 0:00:4 0:00:3 0:00:4 0:00:4 0:00:2

	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	NUMBER 18
HOS			Intompen to			NORDEN TO
Othelio Des.	0:01:00	0:00:21	0:00:33	0:02:05	0:01:33	0:03
HOS training	0:05:50	0:05:26	0:07:41	0:05:42	0:08:43	0:02
System Des.	0:01:03		0:00:34			0:00
Total Training	0:07:59					
System	ADVISING	ADVISING	COUNTRYCLUS	PROJECT MANAGER		PROJECT MANAC
Seen HOS	no	Ves	Y#5	no	no	no
#1 Time	0:01:05					0:02
Answer #2 Time	C c 0:00:32	C e 0:01:04	A . 0:01:31	C o	Ab	C a
Answer	B b	B a	8 6	0:01:37	0:02:16 B b	
#3 Time	0:01:23			the second division of		0:01
Anewer	Bb	8 6	B b	C 0	B b	C c
#4 Time	0:00:36				0:01:20	
Answer	Ac	A	Cc	Bb	Cc	B b
#5 Time	0:01:14					
Anewer	8.6	Bb	Cc	A	Cc	A .
et Time	0:02:03					
Answer	Ab	6.8	A	8 4	A #	8 6
#7 Time	0:00:23	0:00:48	0:00:29	0:00:23	0:00:30	0:00
Answer	Co	C a	Bb	AA	Bb	Aa
#8 Time	0:00:22		0:00:48	0:01:26	0:01:19	0:00
Anewer	СЬ	C a	Aa	Aa	A	A. 8
#9 Time	0:00:36		the second s			
Anewer	Bo	8 0	Bb	8 6	8 0	8 5
#10 Time	0:00:33					
Anewer	A. 4	Ab	Cc	Co	Cc	Cc
TOTAL Time	0:08:47	0:06:39	0:10:01	0:10:13		
TOTAL Wrong					1	
HOS Rate	NUMBER 13	NUMBER 14	NUMBER 15	NUMBER 16	NUMBER 17	NUMBER 18
JACKSON	NUMBER 14	NUMBER 19	NYMBER 12	NUMPER 10	HUMBER 17	NUMBER 10
Othelio Des.	0:00:27	0:00:07	0:00:35	0:00:37	0:00:41	0:01
JACK training	0:03:56					
System Des.	0:00:16					
Total Training	0:04:41					
System	COUNTRY CLUB	PROJECT MANAGER		ADVISING	PROJECT MANAGER	
VIPUT				ino	Ves	no
Seen JACK	00	10	IVES.			0.01
				0:01:06	0:00:30	0:01
Seen JACK	0:01:35	0:00:30 C o	0:01:21 C c	0.0	0:00:30 C c	A
Seen JACK #1 Time Answer #2 Time	0:01:35 A b 0:01:38	0:00:30 C o 0:00:30	0:01:21 C c 0:00:44	C c 0:01:09	C c 0:00:34	A # 0:00
Seen JACK #1 Time Answer #2 Time Answer	0:01:35 A b 0:01:38 B s	0:00:30 C o 0:00:30	0:01:21 C c 0:00:42 B b	C c 0:01:09 B a	C c 0:00:34	A a 0:00 B 10
Seen JACK #1 Time Answer #2 Time Answer #3 Time	0:01:35 A b 0:01:35 B s 0:00:28	0:00:30 C c 0:00:30 A a 0:00:17	0:01:21 C c 0:00:42 B b 0:01:33	C c 0:01:09 B s 0:00:44	C c 0:00:34 A a 0:00:58	A a 0:00 B To 0:00
Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer	0:01:35 A b 0:01:35 B s 0:00:28 B b	0:00:30 C c A a 0:00:17 C c	0:01:21 C c B b C 0:00:42 B b C 0:01:33 C 0:01:33	C c 9:01:09 8 z 0:00:44 8 b	C c 0:00:34 A a 0:00:56 C c	A a 0:00 B b 0:00 B b
Seen JACK #1 Time Answer #2 Time Answer #5 Time Answer #4 Time	0:01:35 A b 0:01:38 B s 0:00:28 B b 0:00:23	0:00:30 C o 0:00:30 A a 0:00:17 C c 0:00:30	0:01:21 C 0 0:00:42 B b C 0:01:33 B b 0:00:50	C c 0:01:05 8 s 0:00:44 8 b 0:00:20	C c 0:00:34 A A 0:00:56 C c 0:01:11	A a 0:00 B b 0:00 B b 0:00
Seen JACK e1 Time Anower e2 Time Anower e3 Time Anower Anower	0:01:35 A b 0:01:36 B s 0:00:28 B b 0:00:23 C s	0:00:30 C o 0:00:30 A a 0:00:17 C c 0:00:38 B b	0:01:21 C c 0:00:43 B b 0:01:33 B b 0:00:55 A s	C c 0:01:05 8 a 0:00:44 8 b 0:00:20 A a	C c 0:00:38 A a 0:00:58 C c 0:01:11 B b	A a 0:00 B b 0:00 B b 0:00 C c
Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:01:35 A b 0:01:38 B a 0:00:23 B b 0:00:23 C a 0:00:31	0:00:30 C 0 0:00:30 A a 0:00:17 C c 0:00:38 B b 0:00:25	0:01:21 C c 0:00:43 B b 0:01:33 B b 0:00:50 A a 0:00:24	C c 0:01:05 8 a 0:00:44 B b 0:00:20 A a 0:01:04	C c 0:00:34 A a 0:00:58 C o 0:01:11 B b 0:00:28	A a 0:00 B b 0:00 B b 0:00 C c 0:00
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Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time Answer #10 Time	no 0:01:35 A b 0:01:36 B s 0:00:28 B b 0:00:23 C s 0:00:31 C c 0:01:11 A s 0:00:18 B b 0:01:26 B b 0:00:37	0:00:30 C 0 0:00:30 A s 0:00:37 C c 0:00:38 B b 0:00:25 A s 0:00:11 A s 0:00:140 B c 0:00:40	0:01:21 C c 0:00:43 B b 0:01:33 B b 0:00:24 B b 0:00:24 B b 0:00:24 C c 0:00:15 C c 0:00:14 C c 0:00:14 C c 0:00:14 C c 0:00:14 C c 0:00:15 C c 0:	C c 0:01:05 B a 0:00:44 B b 0:00:25 A a 0:00:55 A a 0:00:16 C c 0:00:14 C c 0:00:44 B b 0:00:45 B b 0:00:44 B a 0:00:44 C c 0:00:44 C c 0:00:45 C	C c 0 0:00:34 A a 0 0:00:55 C c 0 0:01:11 B b 0 0:00:25 A a 0 0:00:22 A a 0 0:00:25 A a 0 0:00:25 0	A a 0:00 B b 0:00 C c 0:00 C c 0:00 A a 0:00 B b 0:02 A a 0:00 B b 0:02 A a 0:00 C c
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WARNIER-ORR Othelio Des.	0.1	01:07	-	0:00:38		0:01:50		0:01:07		0:01:19		0:00:4
WO training		06:05		0:04:31		0:05:23		0:05:09		0:05:43		0:05:2
System Des.		00:29		0:00:26		0:01:10		0:00:29		0:00:38		0:00:2
Total Training	0:0	7:41		0:05:35		0:08:23		0:06:45		0:07:40		0:06:3
	SAVINGS ACC	JUNT		CCOUNT		CCOUNT		CCOUNT		CCOUNT		ACCOUNT
Seen WO #1 Time	<u>no</u>	0.1.0	no	0:00:47	yes	0:01:28	no	A.60.00	Yes	A.A.I.A7	no	A.A.I.I
	Bb	00:18	B a.	0:00:47	Bb	0:01:28	Bb	0:00:23	8 0	0:01:37	8 6	0:04:1
#2 Time	the second s	00:46		0:01:21		0:01:14		0:01:18		0:00:37		0:01:4
Answer	A o	1000	Ab		A.a.	100	A		A		Ab	
#3 Time		0:59		0:00:50		0:01:15		0:00:52		0:01:58		0:01:0
Answer	8 .		8 6		Bb		Ba		8 6		8.6	
#4 Time	D d	00:13		0:00:43		0:00:35		0:01:32		0:01:04		0:01:4
Answer #5 Time	A REAL PROPERTY AND A REAL	01:45	De	0:01:15	Db	0:01:37	Da	0:02:16	Db	0:01:01	Dd	0:00:3
	Bc		Bc	2121112	Bc		Bc		Bc	4.91.91	Bo	0.00.3
#6 Time	0:0	01:09		0:00:44		0:00:26		0:01:04		0:00:57		0;00:5
	Bb		Bb		8 6		8 .		Bb		Ba	
#7 Time		00:40		0:00:44		0:00:17		0:00:22		0:00:56		0:01:0
Answer NR Time	Co		Co	0.00.0	Cc	0.01.11	Co	0.05.17	Cc	A.00.00	Cc	
#8 Time Answer	D c	00:56	8 6	0:00:21	Be	0:01:42	Bc	0:00:42	Ba	0:02:29	8 6	0:03:2
#9 Time		00:45		0:00:13		0:00:39		0:00:43		0:00:30		0:00:1
Answer	Bb		8 b		8 .		Bb		Bb		8 6	
#10 Time	0:	00:41		0:00:17		0:00:15		0:00:20		0:00:35		0:00:1
	Co		Cc		Cc		Cc		C c		Cc	
TOTAL Time	0:0	08:12		0:07:15		0:09:28	-	0:09:32		0:11:44		0:15:1
TOTAL Wrong WO Rate		4										
	NUMBER 13		NUMBER	14	NUMBER	15	NUMBER	16	NUMBER	17	NUMBER	18
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YC training		05:29		0:03:09		0:07:49		0:06:04		0:06:07		0:03:4
System Des.		00:34		0:00:24		0:01:51		0:00:57		0:00:46		0:00:4
Total Training	PROJECT MAN	06:12		0:03:42		0:10:10		0:07:32		0:07:34		0:05:4
System Seen YC	no	AUSCIN	no	1008	Ves	MAL WALSON	TO NOTAL	uub	ADVISING		ADVISING	
#1 Time		00:19		0:00:52		0:02:43		0:01:38		0:01:59	the second se	0:02:4
	Cc		Ac	-	C .		A .		C a		Cb	
#2 Time		1:04		0:00:49		0:00:38		0:02:22		0:02:36		0:01:5
Answer	A		Ba		Ac		Bb		Bb		Bb	
#3 Time	0:0	01:48	Bb	0:00:56		0:00:44		0:01:32		0:01:40		0:01:3
Answer #4 Time		00:49	80	0:00:46	C c	0:00:58	Bb	0:00:23	Bb	0:00:37	Bb	0:00:3
	Bo		C .		Bb	2.00.00	C a	4.44.20	AR	9.99.37	A .	0.00.0
#5 Time		00:41		0:00:15	-	0:00:27		0:00:39		0:00:36		0:01:5
Anewer	Ab		Co		A	1	Ce		Bb		Bb	
#8 Time		00:52		0:00:12		0:00:27		0:00:27		0:02:22		0:00:4
	B.b		A	0.01.1	Bb		A c	0.01.01	14 .	A.A.	A .	
#7 Time	0:0 A a	00:28	Bb	0:00:12	A	0:00:28	ВЬ	0:00:20	C e	0:00:18	Co	0:00:0
Answer #8 Time		00:39		0:00:34		0:00:25		0:00:59		0:01:46		0:01:1
	A b		A .	2.20.34	Ab	0.00.20	Ab		Cd	V.V.1.40	Сь	
#9 Time	0:0	1:17		0:00:35		0:02:26		0:00:38		0:00:21		0:00:3
Answer	Bb		Bb		в		Bb		Bc		Bb	
#10 Time	0:0	00:45		0:00:21		0:00:21		0:00:25		0:00:33		0:01:0
	Çc		C c		C o		Cc		A .		A #	
TOTAL Time	0:0	8:42		0:05:32		0:09:37		0:09:23		0:12:48		0:12:1
TOTAL Wrong YC Rate		3	-	2		5		3		3		
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	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
HOS Othelio Des.	0:00:37	0:00:57	0:00:21		0:00:17	
HOS training	0:04:22					
System Des.	0:00:35					
Total Training	0:05:34					
System	ADVISING	ADVISING	COUNTRYCLLB	PROJECT MANAGER		PROJECT MAN
Seen HOS	00	Y98	Ves	100	Ves	Ves
#1 Time	0:02:05		0:00:43		0:00:55	0:0
Anewer	Co	Cc	A 8	Cc	A .	Cc
#2 Time	0:00:29					
Anawer	0:01:24	B c	B b	A c	Bb	A .
Answer	8 b	0:02:43 B 4	0:00:42 B b	0:00:36 C c	0:00:29 8 b	0:0 C c
#4 Time	0:01:17			0:00:49		
Answer	Ac	A d	Ce	8 6	C e	Bb
#5 Time	0:01:15					
Anewer	8 b	Bb	Cc	A	Cc	A
#8 Time	0:00:42	0:00:25	0:00:29	0:00:30		
Anewer	A	A	Aa	8 b	A .	Bb
#7 Time	0:00:30		0:00:12	0:00:11	0:00:16	0:00
Anewer	Cc	Cc	8 5	A	8 .	Aa
## Time	0:01:16			0:00:24		
Anamer	C c	СЬ	A .	A. 8	A .	A .
#9 Time	0:00:48	0:00:19				
Angerer #10 Time	B c 0:02:49	B b 0:02:16	B b	6 b	Bb	8 5
Answer	A b	0:02:10	0:00:49 C c	0:01:18 C a	0:00:59 C b	0:01 C c
TOTAL Time	0:12:35	0:11:09				
TOTAL Wrong	4		0	2	2	0.01
HOS Fete	3	3	1	5	2	
	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
JACKSON						1
				and the second se		
	0:01:24	0:00:57	0:00:33	0:00:29	0:00:20	0:00
Othelio Des. JACK training	0:03:07	0:03:42	0:03:28			
JACK training System Des.	0:03:07	0:03:42	0:03:28	0:02:33	0:03:42	0:04
JACK training Svatem Des. Total Training	0:03:07 0:00:10 0:04:41	0:03:42 0:00:38 0:05:17	0:03:28	0:02:33 0:00:27 0:03:29	0:03:42 0:00:31 0:04:33	0:00
JACK training System Des. Total Training System	0:03:07 0:00:10 0:04:41 COUNTRY CLUB	0:03:42 0:00:38 0:05:17 PROJECT MANAGER	0:03:28 0:01:08 0:05:09 ADVISING	0:02:33 0:00:27 0:03:29 ADVISING	0:03:42 0:00:31 0:04:33 PROJECT MANAGER	0:04 0:00 0:09 COUNTRY CLUB
JACK training System Des. Total Training System Seen JACK	0:03:07 0:00:10 0:04:41 COUNTRY CLUB 09	0:03:42 0:00:38 0:05:17 PROJECT MANAGER	0:03:28 0:01:08 0:05:09 ADVISING	0:02:33 0:00:27 0:03:29 ADVISING	0:03:42 0:50:31 0:04:33 PROJECT MANAGER	0:04 0:00 0:05 COUNTRY CLUB
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JACK training System Des. Total Training System Seen JACK e1 Time Answer	0:03:07 0:00:10 0:04:41 CCUNTRY CLUB No 0:01:03 A b	0:03:42 0:00:38 0:05:17 PROJECT MANAGER ves 0:00:27 C c	0:03:28 0:01:08 0:05:09 ADVISING V88 0:00:36 C b	0:02:33 0:00:27 0:03:29 ADVISING Via 0:01:03 C b	0:03:42 0:00:31 0:04:33 PROJECT MANAGER Ves 0:00:44 C. c	0:04 0:00 0:09 COUNTRY CLUB Ves 0:01
JACK training System Des. Total Training System Seen JACK #1 Time Answer #2 Time	0:03:07 0:00:10 0:04:41 COUNTRY CLUB np 0:01:03 A b 0:01:24	0:03:42 0:00:38 0:05:17 PROJECT MANAGER ves 0:00:27 C c	0:03:28 0:01:08 0:05:09 ADVISING WB 0:00:36 C b 0:00:19	0:02:33 0:00:27 0:03:29 ADVISING VIII 0:01:03 C b 0:00:32	0:03:42 0:00:31 0:04:33 PPOJECT MANAGER Vee 0:00:44 C c 0:00:19	0:04 0:05 0:05 0:05 0:05 0:05 0:05 0:05
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JACK training System Des. Total Training System Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #4 Time Answer #5 Time	0:03:07 0:00:10 0:04:41 COUNTRY CLB no 0:01:03 A b 0:01:24 B b 0:02:05 B b 0:00:19 C s	0:03:42 0:00:38 0:05:17 PROJECT MANAGER Ves 0:00:27 C c 0:00:53 A a 0:00:53 A a 0:01:14 B b 0:00:48	0:03:28 0:01:08 0:05:09 ADV/5/NG Ves 0:00:36 C b 0:00:19 B s 0:00:45 B b 0:00:17 A s 0:00:13	0:02:33 0:00:27 0:03:29 407/ISING 745 0:01:03 C b 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:33 A b	0:03:42 0:00:31 0:04:33 PROJECT MANAGER Ves 0:00:44 C c 0:00:19 A c 0:00:29 C c 0:00:33 B b	C C C C C C C C C C C C C C C C C C C
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JACK training System Des. Total Training System Seen JACK #1 Time Answer #2 Time Answer #3 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #6 Time Answer #7 Time Answer #7 Time Answer #0 Time Answer #10 Time	0:03:07 0:00:10 0:04:41 COUNTRY CLUB no 0:01:03 A b 0:01:24 B b 0:02:05 B b 0:00:19 C a 0:00:19 C c 0:00:11 A a 0:00:13 A a 0:00:56 B b 0:01:46 A b 0:01:46 A b 0:01:46 A b 0:01:46 C c:00:52 C c	0:03:42 0:00:32 0:05:17 PROJECT MANAGER ves 0:00:27 C c 0:00:53 A s 0:00:53 A s 0:01:14 C c 0:01:14 B b 0:00:31 B b 0:00:52 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:55 C c 0:00:55 C c 0:00:15 C c 0:00:55 C c 0:00:15 C c	0:03:28 0:01:08 0:05:09 ADVISING Ves 0:00:36 C b 0:00:19 B 4 0:00:45 B b 0:00:17 A s 0:00:17 A s 0:00:17 A s 0:00:13 B b 0:00:14 A s 0:00:14 A s 0:00:18 C c 0:00:10 C c	0:02:33 0:00:27 0:03:29 ACVISING vea 0:01:03 C b 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:32 C b 0:00:28 C c 0:00:28 C c 0:00:28 C c 0:00:28 C c 0:00:28 C c 0:00:24 B b 0:00:13 C c 0:00:24 C c 0:00:24 C c 0:00:24 C c 0:00:13 C c 0:00:24 C c 0:00:25 C c 0:00:24 C c 0:00:25 C c 0:	0:03:42 0:00:31 0:04:33 PROJECT MANAGER Ves 0:00:44 C c 0:00:19 A c 0:00:29 C c 0:00:33 B b 0:00:33 A a 0:00:11 A a 0:00:10 A a 0:00:10 A a 0:00:10 A a 0:00:11 A a 0:00:31 C c 0:00:12 C c 0:00:33 C c 0:00:34 C c 0:00:35 C c 0:00:34 C c 0:00:35 C c 0:00:34 C c 0:00:35 C c 0:00:35	0:04 0:04 0:02 0:01 COLINITRY CLUB 0:01 Ves 0:01 A 0:02 B 3 0:02 0:02 B 0:02 C 0:02 C 0:02 A 0:02
JACK training System Des. Total Training System Seen JACK e1 Time Answer #2 Time Answer #5 Time Answer #5 Time Answer #7 Time	0:03:07 0:00:10 0:04:41 COUNTRY CLUB no 0:01:03 A b 0:01:24 B b 0:02:05 B b 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:19 C a 0:00:10 C a 0:00:124 C a 0:00:125 C a 0:1	0:03:42 0:00:32 0:05:17 PROJECT MANAGER ves 0:00:27 C c 0:00:53 A s 0:00:53 A s 0:01:14 C c 0:01:14 B b 0:00:31 B b 0:00:52 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:53 A s 0:00:55 C c 0:00:55 C c 0:00:15 C c 0:00:55 C c 0:00:15 C c	0:03:28 0:01:08 0:05:09 ADVISING Ves 0:00:36 C b 0:00:36 C b 0:00:45 B b 0:00:13 B b 0:00:44 A a 0:00:14 C c 0:00:30 C c 0:00:30 C d 0:00:30 C d 0:00:45 C d 0:00:12 C d 0:00:30 C d 0:	0:02:33 0:00:27 0:03:29 407/ISING Ves 0:01:03 C b 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 C b 0:00:32 B a 0:00:32 B a 0:00:28 A a 0:00:28 0:00	C c 0:00:34 0:00:31 0:04:33 PROJECT MANAGER Ves 0:00:44 C c 0:00:19 A c 0:00:29 C c 0:00:33 B b 0:00:33 A a 0:00:11 A a 0:00:11 A a 0:00:11 B b 0:00:31 B b 0:00:33 A a 0:00:12 A a 0:00	C c 0:04 0:04 0:07 0

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WIDINER ORS	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
WARNIER-ORR Othelio Des.	0:00:39	0:03:06	0.00.0	0.01.07	0.00.01	0.00.0
WO training	0:02:23					
System Des.	0:01:49					
Total Training	0:04:51				0:05:23	
System	PROJECT MANAGER	COUNTRY CLUB	PROJECT MANAGER		ADVISING	ADVISING
Seen WO	Y9\$	Y05	Yes	Yes	yes	Yes
#1 Time	0:00:27		0:00:41	0:01:25		
Answer	0:01:43	A	Cc	A .	C a	Co
#2 Time Answer	0:01:43	0:01:27 B b	0:00:48	0:01:38	0:01:05	0:00:5
#3 Time	0:00:35					
Answer	Cc	Bb	Co	Bb	Bc	Bb
#4 Time	0:00:19	0:00:19	0:00:25			
Answer	Bb	Co	Bb	C 8	AR	A
#5 Time	0:00:12		0:00:12			The second s
Answer	A 1	Co	A .	Cc	Ba	Bb
#6 Time	0:00:39 B b					
Answer #7 Time	0:00:32	A a 0:00:39	B b 0:00:09	A . 0:00:18	A a 0:00:20	A a 0:00:1
Answer	A .	B a	A 8	B b	C o	C c
#8 Time	0:00:10					
Answer	A .	A .	A .	A	Cc	Сь
#9 Time	0:00:12	0:00:30	0:00:20		0:00:19	0:00:6
Answer	Bb	B b	Bb	Bb	Bb	ВЬ
#10 Time	0:00:25					
Answer Torral Time	C	C c	Cc	CA	A 4	A 2
TOTAL Time TOTAL Wrong	0:05:14			0:06:07		0:11:4
WO Rate						
TTO THEM	NUMBER 19	NUMBER 20	NUMBER 21	NUMBER 22	NUMBER 23	NUMBER 24
YOURDON-CONSTAN		NUMBER 29	NUMBER 21	NUMBER 42	NUMBER 29	NUMBER 24
Othello Des.	0:00:49	0:00:51	0:00:50	0:02:56	0:00:52	0:00:1
YC training	0:06:57					the second se
System Des.	0:00:35					
Total Training	0:08:21					
System				SAVINGS ACCOUNT		
Seen YC	no	Ves	Ves	Ves	Ves	Yes
#1 Time	0:00:56					
Answer	Bb	Bb	Bb	Bo	Bc	B .
#2 Time	0:00:56	0:01:19	0:01:01	0:00:44	0:00:48	
Answer						
	A #	A .	A #	Ab	Aa	A
#3 Time	0:01:28	0:04:29	A a 0:01:22	0:00:51	0:01:20	0:01:1
#3 Time Answer	0:01:28 B a	0:04:29 B c	A a 0:01:22	0:00:51 B c	0:01:20 B c	0:01:1 B c
#3 Time Answer #4 Time	0:01:28 B a 0:00:49	0:04:29 B c 0:00:23	A a 0:01:22 B c 0:00:35	0:00:51 B c 0:00:18	0:01:20 B c 0:00:18	0:01: B c 0:02:0
#3 Time Answer #4 Time Answer	0:01:28 B a 0:00:49 D d	0:04:29 B c 0:00:23 D s	A a 0:01:22 B c 0:00:35 D b	0:00:51 B c 0:00:18 D s	0:01:20 B c 0:00:18 D a	0:01: B c 0:02:0 D a
#3 Time Answer #4 Time	0:01:28 B a 0:00:49	0:04:29 B c 0:00:23 D s	A a 0:01:22 B c 0:00:35 D b	0:00:51 B c 0:00:18 D #	0:01:20 B c 0:00:18 D a	0:01: B c 0:02:0 D a
#3 Time Answer #4 Time Answer #5 Time	0:01:28 B a 0:00:49 D d 0:00:45	0:04:29 B c 0:00:23 D a 0:00:53 B b	A a 0:01:22 B c 0:00:35 D b 0:00:35 B b	2 0:00:51 B c 0:00:18 D a 0:00:58 B b	0:01:20 B c 0:00:18 D a 0:00:29 B b	0:01:1 B c 0:02:0 D a 0:03:0 B b
#3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer	0:01:28 B a D d 0:00:49 D b 0:00:45 B b 0:00:55 A a	0:04:29 B c 0:00:23 D a 0:00:53 B b 0:00:52 A a	A a 0:01:22 B c 0:00:35 D b 0:00:35 B b 0:00:33 A a	2 0:00:51 B c 0:00:18 D a 0:00:58 B b 0:00:29 A a	0:01:20 B c 0:00:18 D a 0:00:29 B b 0:00:22 A a	D 0:01:1 B 0 D 0:02:0 D 0:03:0 B b C 0:00:3 A a
#3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time	0:01:28 B a 0:00:49 D d 0:00:45 B b 0:00:55 A a 0:00:39	0:04:29 B c 0:00:23 D s 0:00:53 B b 0:00:52 A s 0:01:11	A a 0:01:22 B c 0:00:35 D b 0:00:35 B b 0:00:33 A a 0:00:55	2 0:00:51 B c 0:00:18 D s 0:00:58 B b 0:00:29 A s 0:00:30	0:01:20 B c 0:00:18 D a 0:00:29 B b 0:00:22 A a 0:00:27	0:01:1 B 0:02:0 D 0:03:0 B 0:00:3 A 0:00:3
#3 Time Answer #5 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer	0:01:28 B a 0:00:49 D d 0:00:45 B b 0:00:55 A a 0:00:39 C c	0:04:29 B c 0:00:23 D s 0:00:53 B b 0:00:52 A s 0:01:11 C c	A a 0:01:22 B c 0:00:35 D b 0:00:35 A a 0:00:55 C a	2 0:00:51 B c 0:00:18 D # 0:00:58 B b 0:00:29 A a 0:00:30 C c	0:01:20 B c 0:00:18 D a 0:00:29 B b 0:00:22 A a 0:00:27 C c	D 0:01:1 B c D a 0:02:0 D a 0:03:0 B b 0:00:3 A a 0:00:2 C c
#3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time	0:01:28 B a 0:00:49 D d 0:00:45 B b 0:00:55 A a 0:00:39 C c 0:00:22	0:04:29 B c 0:00:23 D a 0:00:53 B b 0:00:52 A a 0:01:11 C c 0:00:22	A a 0:01:22 B c 0:00:35 D b 0:00:35 B b 0:00:33 A a 0:00:53 C a 0:00:20	2 0:00:51 B c 0:00:18 D # 0:00:56 B b 0:00:29 A a 0:00:30 C c 0:00:27	0:01:20 B c 0:00:18 D a 0:00:29 B b 0:00:22 A a 0:00:27 C c 0:00:28	0:01:1 B 0:02:0 D 0:02:0 B 0:03:0 B 0:00:3 A 0:00:3 C c 0:00:3 0:00:3
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#3 Time Answer #4 Time Answer #5 Time Answer #6 Time Answer #7 Time Answer #8 Time Answer #8 Time	0:01:28 B a 0:00:49 D d 0:00:45 B b 0:00:55 A a 0:00:39 C c 0:00:22 B y 0:00:18	0:04:29 B c 0:00:23 D a 0:00:53 B b 0:00:52 A a 0:01:11 C c 0:00:22 B e 0:00:23	A a 0:01:22 B c 0:00:35 D b 0:00:35 B b 0:00:53 C a 0:00:53 C a 0:00:55 C a 0:00:20 B a 0:00:48	2 0:00:51 B c 0:00:18 D a 0:00:58 B b 0:00:29 A a 0:00:30 C c 0:00:27 B c 0:00:25	0:01:20 B c 0:00:18 D a 0:00:29 B b 0:00:22 A a 0:00:22 C c 0:00:28 B 0:00:28 C c	0:01:1 B c 0:02:0 D 0 0:03:0 B b 0:00:3 C
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Student and Professional Understandability of Software Design Methodologies

by

PAULA V. DANIELS

BS in Computer Science, Kansas State University, 1984

خط اللة جرار طل طو طو حوار من الي حوار عل الله الله عن عن حق ذلك عن الي الي عن الي عن الله عن الله عن الله عن ا

AN ABSTRACT OF A MASTER'S THESIS

submitted in partial fulfillment of the requirements for the degree

MASTER OF SCIENCE

Department of Computing and Information Sciences

KANSAS STATE UNIVERSITY Manhattan, Kansas

1987

- ABSTRACT -

The initial design of a system is an important phase of the Software Life Cycle. This research examines the understandability of software design methods. Two independent groups, students and professionals, were asked to answer questions about system diagrams which were represented using four software design methods. These methods are Higher Order Software (HOS), Jackson, Warnier-Orr and Yourdon-Constantine. Understandability is measured by the speed and accuracy with which the forty-eight subjects answered the questions.

Each subject was tested on all four methods; therefore, four different systems were needed. The systems are as follows: Savings Account Monthly Report System, Student Advisory System, Country Club system, and a Project Manager System. The questionnaires consist of ten questions. Each question has three to four multiple choice answers. The ten questions are the same for each system, some of the multiple choice answers vary for the particular design method. Before each subject is tested over a particular method, they are given a brief training session. The training session consists of a design method description, an Othelio System example diagram and training questions.

The subjects interject their own assumptions into the diagrams for which they think they know the system or the design method instead of actually reading the diagram. They are able to trace the diagrams but have difficulty understanding the diagrams as a whole system. Yourdon-Constantine did the worst overall. For both test groups, it had the highest mean number wrong. Warnier-Orr had both the highest and the lowest mean number of errors for the professionals while it had the lowest overall mean number of errors for the students. Jackson did the worst on the report type system. HOS did the best overall. It had the lowest mean number wrong for the professionals and the second lowest mean number wrong for the students. The choice of which design method is the best depends on a speed/accuracy tradeoff; the accuracy of a software design should be more important than speed in doing the design. It is the hope that this research may show insights to areas of design understandability that need further investigation.