OASYS: Menu

Menu for Mr A Protogerellis (csuqw) on Mon Feb 28 19:44:00 2000

The Process...

- You can only take a test at the end of a lab session when supervised
- You should attempt to mark 3 other scripts before your next lab
 Full course credit will only be awarded by participation in both testing and viewing and grading

other people's work When three of your colleagues have marked your script, you will receive your marks and be able to browse their comments and suggestions.

The success of this testing approach is in your hands...

Tell me more about OASYS ...

 $\label{eq:constraint} \textbf{Only one lab session remains - this is your only chance to catch up on missed sessions (28th Feb) - (28th Feb$

The Menu

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contact us ASAP. [ashley]
22nd Feb 8:38pm: I've fixed the problem with the "mark a test" allocation that I mention below. Demonstrators will shortly be starting work on marking scripts, so the marking shortfall should be resolved soon. Also, just for the record: there were minor problems in the lab sessions earlier today, caused by the temporary DCS web server outage. [ashley]
22nd Feb 1315pm: There are only two lab sessions remaining. Please could you therefore make a

The *main menu* of OASYS (*on-line assessment system*) highlights the available options for this learner. Unavailable options can still be selected, and result in an explanation as to why they are not a valid option at present.



The first question in the first test is a *Multiple Choice Question* (MCQ). The background colour (which can easily be seen at a distance by invigilators!) for this test is light blue and is used to represent this test consistently throughout the system.



The *question navigator* is shown at the top – green buttons represent answered questions, red unanswered, and a larger button for the current question. The test need not be done in linear sequence – this learner has only answered questions 1, 3 and 4.



Permutational Multiple Choice Questions (PMCQs) are another question type. Potential answers are *jumbled* up "randomly" (actually, not quite – this learner will always see this question this way) so that answers cannot be copied from a nearby learner.



Entirely *free response answers* are a major feature of OASYS free responses are marked by other learners. Also note here the use of HTML *links* to supporting material, and the use of *images* in the question and potential answers on the previous page. When the *End Test* button is been pressed, the learner is asked to confirm their choice with this screen. After they do, the test is "handed in" and the learner can proceed with marking.



Learners are required to mark three scripts to gain full credit. The *marking page* shows the original question; advice on the correct use of the mark scheme for this question; the answer to be marked (which was previously entered by another learner) and finally the *marking interface*. Notice that answers to the multiple choice questions (in this test, questions 1-7) are *automatically marked* and so cannot be selected in the question navigator – feedback on MCQ answers is given in the "see my marks" interface, described next.

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"See my marks" is where learners obtain feedback on their own scripts, and can be viewed at *any time* from *anywhere* on the Internet. Marking can also be done in learners' own time. The MCQ is "jumbled" the same way as the learner originally saw it.

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A		B		Potential answer
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PMCQs attempt to minimise the probability of a correct response from a simple guess, and so the learner receives all the points available (as set in a *mark scheme*) if they are correct in both answers, and no points if either or both answers are incorrect.

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EM University Lookup Project Tecchie Fun Music PhD Jobs Work	Correctness	Excellent OCOO Poor (O unmarked)
OASYS: See my marks	<u>Style</u>	Excellent OCOO poor (O unmarked)
Marks for Mr P Shah (eswsj), test lab3 on Mon Feb 28 20:01:55 2000	<u>Suggestions</u>	You don't need to look up the value in a table as they are already given in the binary tree
1 2 3 4 5 6 7 8 9 10 11 12 Summary sheet Return to menu	Readability	Excellent OCOO poor (O unmarked)
Question 5 was:	Correctness	Excellent OOOO poor (O unmarked)
What algorithm would you use to decode a Morse code string using a binary tree representation?	<u>Style</u>	Excellent OCOO Foor (O unmarked)
Things to consider were:	Suggestions	
A decoding algorithm might look something like:	<u>Readability</u>	Excellent OOOO Foor (O unmarked)
 start from root: ptr = root; Soan Morse string from left to right if (s.oharkt(0)=='.') 	Correctness	Excellent OOOOO Foor (O unmarked)
<pre>ptr = ptr.getLeft(); else if (s.oharA(0)=='-') ptr = ptr.getLight();</pre>	Style	Excellent OOOOO Poor (O unmarked)
<pre>print out ptr.getValue();</pre>	Suggestions	
Your answer was:	Your mark for	this question:
// Give some Java/pseudo-code for a Morse code decoding algorithm	2 48888888888888	14
for number of characters in word do look at the characters in the string if it is a. then traverse tree to left if at is a - then traverse tree to the right	More information about	marking calculations
end loop display result correspond it to a letter from the look up table		Next question
You have been given these marks:	5 100%	a · · · · · · · · · · · · · · · · · · ·
Readability Excellent OCOO Poor (O unmarked)		

Colours are used to provide cues throughout OASYS: here, colours are used to represent the *anonymous* markers of a script. The three learners who performed this marking seem to have given similar opinions, and one has entered a *feedback comment*. The final mark for the question is derived from the marks given, the maximum possible being set (by the administrator) in the mark scheme.

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All the marking information about a script is collated for the learner in the "*summary sheet*". This particular learner has quite a good overall result, but the overall spread of marks given by other learners (shown in the "*break down table*") seems to be fairly wide, despite the lack of variance in marking by the learner represented in mauve.

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OASYS: Edit/Create Test Question Create New Question:-			lab4	б	Briefly discuss whether a sorted list helps or hinders a linear search.	free	3
Test Name: Lab3 🗐 Question Type : Free 🗐 Create			lab4	7	How might a sortedList.add() method benefit from using a linked-list rather than a vector?	free	2
Edit Existing Questions:-		-	lab4	8	What disadvantage would a linked-list be in implementing a binary-chop search?	free	2
lest Name Q# Question example 1 What is the capital of France?	Type mcq	Mark . 1	lab4	9	What is the average number of comparisons required to perform a binary search on an ordered array n of keys? (Show how you calculated this).	free	5
example 2 What type of lecturer do you prefer?	pmcq	5	lab4	10	Given a string s of size l , what are the disadvantages of the following hash function? $hash(s)=\sum_{i=0}^{l-1}s[i]$	free	5
example 3 How long is a piece of string?	free	10	lab4	11	<i>Chaining</i> is used to resolve collisions in hash tables (when two different keys hash to the same hash table index). Other than using the next available array position (bucket), how else might chaining be implemented?	free	3
example 4 How do you test OASYS	pmcq	2	lab4	12	Outline an algorithm for removing items from a hash table.	free	5
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At the *administration* end, some common tasks, such as *creating and editing questions*, are eased by the provision of a web based interface. The stark red background here distinguishes the *example test*, which is not seen by normal learners. Questions can use mathematical symbols, but these must be created as images as current web browsers do not support these symbols directly.

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40	0000000455540	find hashindex for key while (array[hashindex].equals(thing)!=true)		4	Mr B Pope	(String)removeFromHead();
12	20000228165542	{ hashindex = nextindex(hashindex) numcollions++} set key to null		4	Mr C Y M Lee	I think you forgot to cast the removeFromHead to a string type. otherwise it's correct.
		<pre>// the disadvantane(s) of using a linked-list for binary chan search</pre>		4	Mr C Y M Lee	youe dequeue() mthod was wrong. It should have removeFromHead().
		A binary-chop search depends for its efficiency on having random access.		4	Mr R T Cullen	Part 1) super. not required
8	20000228165531	a linked list you'd need to get item 500. This is easy with an array, but with a linked list you'd be forced to follow the links from each item to the		4	Mr A Fewkes	Use methods from super-class
		to 250 or forward to 750, and so on.		4	Miss K C L Mann	Not finished
		// the disadvantage(s) of using a linked-list for binary chop search		4	Miss K C L Mann	EXCELLENTIII
8	20000228165520	It is difficult to immediately choose the central object in a linked list - you need to have preknowledge of how many items are in the list (n) ind then iterate through (n/2) items to get at the central (n) isot (n)		4	Miss K C L Mann	Post condition for dequeue is not quite right
	20000220103329	This would, of course, have to be done for every 'chop' in the binary'search - meaning that for a search on a list of length 'n' you have increased the number of operations from log2(n) to log2(n)+n - more than double, in most cases.		4	Mr L T He	It's not necessary to use SinglyLinkedList.addToTail(s); because it's a subclass of SinglyLinkedList The condition if is not necessary either.
7	20000228165528	// SortedList.add() would benefit from using a linked-list because //the search is carried out linearly, so each item is linked to the next.		4	Mr A G Chaloner	You've done a stack (first in first out). removeFromTail should be removeFromHead (in dequeue)
		// SortedList.add() would benefit from using a linked-list because It would make it quicker to insert the item. You'd just have to work out which item would precede it, and then change pointers so as to		4	Mr A G Chaloner	dequeue sould have removeFromHead, not Tail. it should also use return: { return (String) removeFromHead(); } (you have implemented a stack, not a queue)
7	20000228165528	incorporate the new item into the list. Whereas the veotor class works with arrays. It'd have to copy an entire chunk of the array to make room (or possibly reallocate the array also, if the allocated space was exhausted).		4	Mr A G Chaloner	in enqueue, addToTail takes a String, not a SinglyLinkedListElement in dequeue, "super." is not needed. also, "removeFromTell().getValue()" is not possible in this case. for the postconditions, you need to specify which element is added/removed, whether the list is empty or not is irrelevant.
6	20000228165525	// does a sorted list help or hinder a linear search and why a sorted list helps a linear search as the similar elements or elements beginning with the same letter will be together so if you are searching for a element beginning with 0 it will be near the front of the list with the other C's however		4	Miss D I Ciocan	Not too bad, you've got part one and two right, but the post-conditions aren't that good.
		possibly the whole list to be searched.		4	Miss D I Ciocan	You've done it basically right, but the post- condition for enqueue wasn't quite there.
				4	Miss D I Ciocan	Well, you did the first part correctly, but you didn't even need a while loop for the second part?
				4	Mr A M A Bowen	Dequeue should be removeFromHead - not add to head
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Administrators can browse learners' responses to questions... ... and also their feedback comments entered whilst marking.

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Statistics can be generated in *real time* from the *database*. Question 4 (an MCQ) seems to have mislead the majority of learners who have done the test so far (there are approximately another 80 learners still to complete this test at this point in time).

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Lastly, an interface allowing *moderation* is currently under development (this screen shot is of a prototype).

Thank you for browsing this document.