Midterm

Started: Mar 21 at 12:54pm

Quiz Instructions

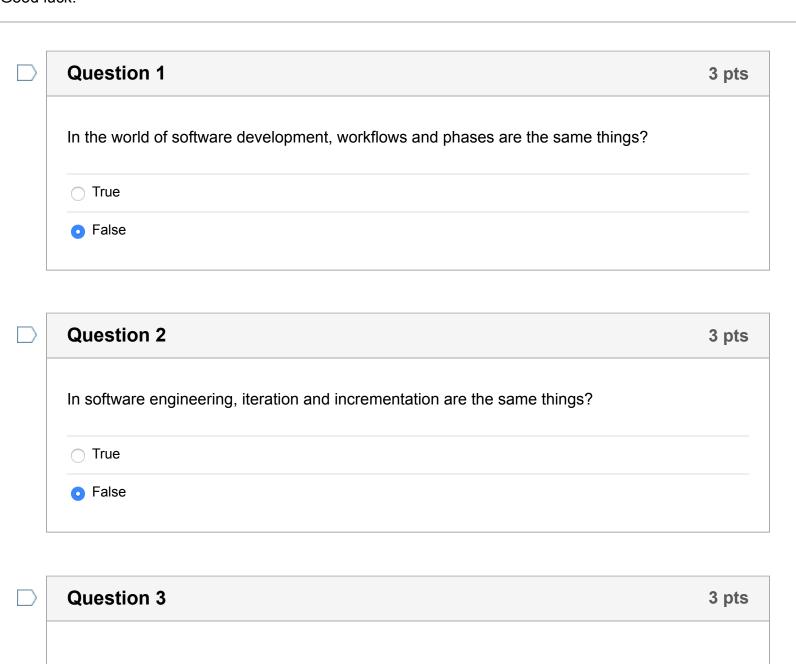
This is a timed test. You will have 120 minutes to complete the test once you begin.

You may not leave and return.

Answer all questions on the test.

In a seated exam, I normally allow for a selection of questions. As this is not possible for this online exam, I will be giving points for up to two questions you may have answered incorrectly, so if any particular question is confusing, answer it as best as possible.

Good luck!



• False	
○ True	
It is not important to understand how the application know what the customer wants.	is going to be used, we simply need to
Question 5	3
The costs of buying user interface components.	
An action a user sees possible without training	
The completion times for a typical task.	
From the perspective of user interface development,	, what can be said about an affordance?
Question 4	3
onone of the above	
o cost-benefit analysis	
using case tools	
using non-executing based testing	

• True		
○ False		
Question 7		3 p
	cally exactly the same but with slightly different diagr	am
○ True		
• False		
Question 8		3 p
Data flow diagrams are old fashioned ar	nd have no current value?	
○ True		
• False		
Question 9		3 p
Is it legal to go from process to process	in a data flow diagram?	
○ True		
• False		
Question 10		3 p

boundary	
control	
○ view	
entity	
Question 11	3 p
When doing noun extraction, which of the following is true?	
both the nouns and verbs are candidate classes	
both the nouns and verbs are candidate methods	
• The nouns are candidate classes, the verbs are candidate methods	
The nouns are candidate methods, the verbs are candidate classes	
Question 12	3 р
This class models the interaction between the software and its actors, an nput and output. (when considering entity, boundary, control)	nd are associated with
• boundary	
_ model	
entity	
control	

Question 13 3 pts

none of the presented answers are correct	
encapsulation	
abstraction	
uestion 14	3 p
name only	
attributes and methods	
attributes only	
methods only	
uestion 15	3 р
subclass cannot override methods of a parent class?	
True	
False	

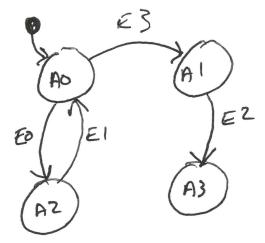
✓ all-definition-use coverage	
✓ statement coverage	
□ buffer evaluation	
☐ linear code sequences	
Question 17	3 pt
Which form of testing happens each time a new module is m	nerged into a system being built?
Product Testing	
onone of the choices are valid	
Acceptance Testing	
Integration Testing	
Question 18	3 pt
Using this integration method, modules that are "logic artifac "user-facing" are integrated first.	cts" and for SEIS-610 considered
top-down integration	
○ bottom-up integration	

Question 19	3 pts
	n 1 item take 1 second. Operations on 2 items take 2 conds. Operations of 4 items take 4 seconds. This is
O(constant)	
O(linear)	
O(quadratic)	
O(logarithmic)	
seconds. Operations on 3 items take 9 seconds.	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds.
I have a collection of data. Operations on seconds. Operations on 3 items take 9 seconds. Operations on 5 items take 25 seconds.	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds.
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I have a collection of data. Operations on seconds. Operations on 3 items take 9 seconds. Operations on 5 items take 25 seconds. To O(quadratic) O(quadratic) O(logarithmic) O(linear) O(constant)	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds. This is classified as BigO
I have a collection of data. Operations on seconds. Operations on 3 items take 9 seconds. Operations on 5 items take 25 seconds. O(quadratic) O(quadratic) O(logarithmic) O(linear)	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds. This is classified as BigO
I have a collection of data. Operations on seconds. Operations on 3 items take 9 seconds. Operations on 5 items take 25 seconds. To O(quadratic) O(logarithmic) O(linear) O(constant) Question 21	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds. This is classified as BigO
I have a collection of data. Operations on seconds. Operations on 3 items take 9 seconds. Operations on 5 items take 25 seconds. To O(quadratic) O(logarithmic) O(linear) O(constant) Question 21 A binary search, when properly implements	1 item take 1 second. Operations on 2 items take 4 conds. Operations o 4 items take 16 seconds. This is classified as BigO

	○ linear time	
L		
\supset	Question 22	3 pts
	The primary activity during construction is writing code, but other workflows are allowed.	
	○ True	
	○ False	
L		
\supset	Question 23	3 pts
	"We have no experience with encryption and the project requires encryption or cannot continue." This statement should be primarily addressed in which part of the inception document? (it may be addressed in multiple sections, but this is the most important one)	
	ouser stories	
	development risks	
	glossary	
	○ business case	
$\supset \Big $	Question 24	3 pts
	We have decided what we are not going to include in the project. These items should be obvious in what part of the inception document?	made
	Non-functional requirements	
	O Project Boundaries	
	Project Vision	

Question 25 3 pts

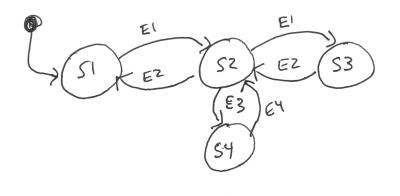
Which sequence of events would bring you into each of the states at least once?



- E1, E3, E2, E1
- E1, E2, E3, E1
- O E0, E1, E3, E2
- E3, E2, E0, E1

Question 26 3 pts

Which sequence of events would bring you into each of the states at least once?



- E1, E1, E2, E3, E4, E2
- E1, E2, E1, E2, E3, E4
- E1, E3, E4, E2
- E1, E2, E3, E4

Question 27	3 pt

Consider a sorted collection of nodes, with ids: 1,2,4,6,9,10,23,61

If I am BINARY searching for the node with an id of 2, which nodes will be examined in the process? (more than one selection)

- **10**
- **4**
- **6**
- 61
- 9
- **23**
- **2**
- **1**

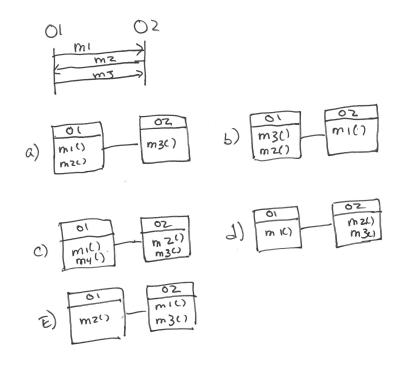
Assuming that the hash function for a table works well, the best hash function ever invented, and the size of the hash table is reasonably large compared to the number of items in the table, the expected (average) time needed to find an item in a hash table containing n items is

- constant
- linear
- logarithmic
- quadratic

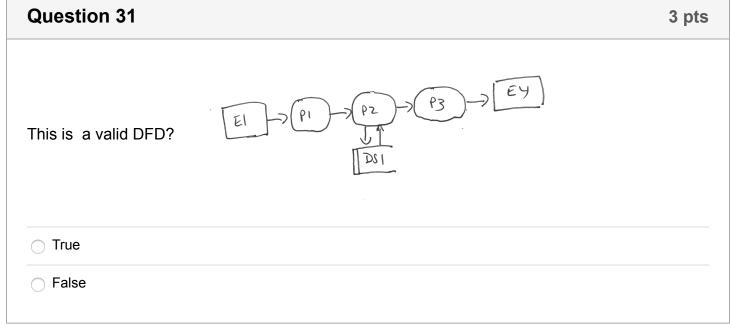
Question 29 3 pts

Look at the Sequence diagram below, and the class diagrams identified by a, b, c, d, and e.

Which class diagram most closely represents the Sequence diagram?



odiagram e		
odiagram a		
odiagram c		
Question 30		3 pts
This is a valid DFD?	EI PI PZ EZ	
○ True		



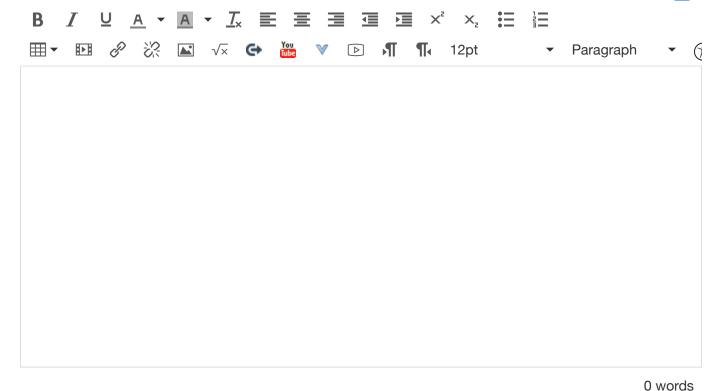
Question 32 3 pts

Here is a collection of numbers from the first past of an unnamed sort.

0,33,11,44,22

Describe which sort could have left these numbers in this order **and why.** (No more than 2 sentences)

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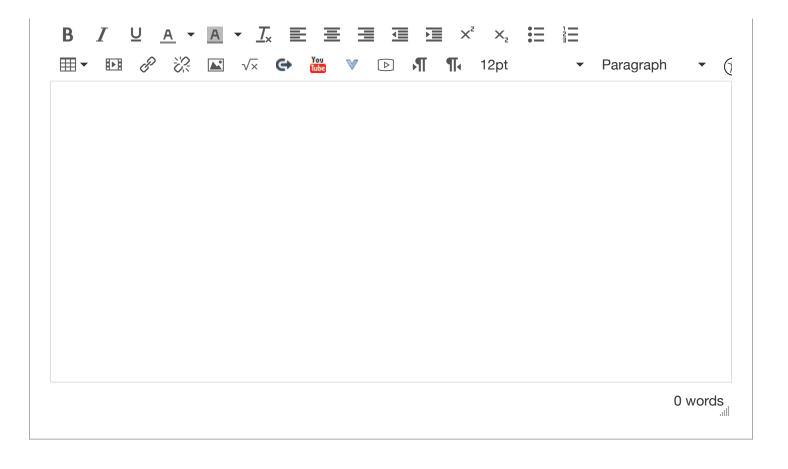
Question 33 gts

Here is a collection of numbers from the first past of an unnamed sort.

5,4,8,13,11

Describe which sort could have left these numbers in this order **and why.** (No more than 2 sentences)

HTML Editor



Question 34	1 pts
What is the last name of the author of our textbook??	

Saving... Submit Quiz

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