<u>Dashboard</u> / My courses / <u>CS102 2024 1</u> / <u>General</u> / <u>Basic (New)</u>

Select all those that are not non linear data structure from the given options. a. Tree b. Linked List c. Graph d. Array Your answer is incorrect. The correct answers are: Graph, Tree		T	
Completed on Tuesday, 12 March 2024, 936 AM Time take 10 mins Grade 10.00 out of 1800 (56%) Question 1 Interpret Mark 000 out of 1.00 Select all those that are not non linear data structure from the given options. □ a. Tree □ b. Linked List			
Time table 10 mins Grade 10.00 out of 18.00 (56%) Cuestion 1 Select all those that are not non linear data structure from the given options. a. Tree b. Linked List			
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 d. O(nlog n) e. O(1) Your answer is correct. The correct answer is:	o b. None of thes	se e	
e. O(1)Your answer is correct.The correct answer is:	c. O(log n)		~
Your answer is correct. The correct answer is:			
The correct answer is:	O e. O(1)		
	Your answer is corre	ect.	
	The correct answer	is:	
	O(log n)		

Question 3	
Incorrect Mark 0.00 out of 1.00	
Binary search algorithm cannot be applied to	
a. Pointer array	
b. sorted linked list	×
○ c. None of these	
O d. sorted binary trees	
e. sorted linear array	
Your answer is incorrect.	
The correct answer is: Pointer array	
Question 4 Incorrect	
Mark 0.00 out of 1.00	
How much memory does a boolean variable occupy?	
a. 2 Bits	
○ b. None of these	
○ c. 2 Byte	
■ d. 1 Byte	×
○ e. 1 Bit	
Your answer is incorrect.	
The correct answer is:	
1 Bit	

Question 5 Correct	
Mark 1.00 out of 1.00	
Consider the student records of your class sorted in student id order. How much time it will take to search a student name with student id x.	
$^{ extstyle a.}\;O(logn)$	~
$^{\bigcirc}$ b. $O(loglogn)$	
$^{\bigcirc}$ c. $O(n)$	
$^{\circ}$ d. $_{O(1)}$	
Your answer is correct.	
The correct answer is:	
O(logn)	
Question 6	
Correct Mark 1.00 out of 1.00	
Time Complexity of obtaining n rectangles by folding paper once in each operation is?	
Time complexity of obtaining in rectangles by folding paper once in each operation is:	
a. O(log n)	~
○ b. None of these	
O c. O(n^1)	
O d. O(1)	
e. O(nlog n)	
Your answer is correct.	
The correct answer is:	
O(log n)	

Question 7	
Incorrect	
Mark 0.00 out of 1.00	
Which of the following statements is/are not correct about Garbage Collection in JAVA?	
☑ a. It makes memory management efficient.	×
	×
☑ b. It is an automatic process.	
c. Process of reclaiming the runtime used memory by destroying the unused objects.	~
d. Removes referenced objects from heap memory.	
Your answer is incorrect.	
The correct answers are: Removes referenced objects from heap memory.,	
Process of reclaiming the runtime used memory by destroying the unused objects.	
Question 8 Incorrect	
Mark 0.00 out of 1.00	
Which of the following is/are not correct?	
Which of the following is/are not correct:	
 a. The operand (s) specifies the type of operation to be performed on the opcode. 	
 b. Each computer instruction consists of sixteen bits divided into four 4-bit fields. 	
© c. 20 bits are needed to address any single word in memory if the computer has 8 MB of memory and each word in this	×
computer is 8 bytes.	
 d. The total number of uniquely identifiable locations in memory is called the address space. 	
Your answer is incorrect.	
The correct answer is: The operand (s) specifies the type of operation to be performed on the opcode	
The correct answer is: The operand (s) specifies the type of operation to be performed on the opcode.	

Question 9	
Correct Mark 1.00 out of 1.00	
Which of the following kind of function represent running time of an algorithm?	
a. Increasing function	✓
O b. Decreasing function	
oc. Both (a) and (b)	
Od. None (a) and (b)	
Your answer is correct.	
The correct answer is: Increasing function	
mercasing fanction	
Question 10 Correct	
Mark 1.00 out of 1.00	
Which of the following are linear data structures?	
b. All of these	✓
○ c. Array	
O d. Linked List	
O e. Queue	
Your answer is correct.	
The correct answer is: All of these	

Question 11 Correct Mark 1.00 out of 1.00	
What does Big Oh notation represents?	
a. Maximum time required to run a program	~
○ b. Minimum time required to run a program.	
○ c. Average time required to run a program	
Od. None of the above.	
○ e. All of these	
Your answer is correct.	
The correct answer is: Maximum time required to run a program	
Question 12	
Correct Mark 1.00 out of 1.00	
In Java the data type <i>char</i> is commonly	
a. 8-bit Unicode character	
b. 16-bit Unicode character	~
o c. 32-bit Unicode character	
od. 64-bit Unicode character	
○ e. None of these	
Your answer is correct.	
The correct answer is: 16-bit Unicode character	

Question 13 Incorrect Mark 0.00 out of 1.00 Given an array $s = \{\text{"Gujrat", "Odisha", "Kashmir", "Tamilnadu"}\}$, what shall be output of the code fragment System.out.println("s = " +Arrays.toString(s)); ○ a. s = [GOKT] b. s = [GujratOdishaKashmirTamilnadu] × \bigcirc c. s = [G, O, K, T] od. s = [Gujrat, Odisha, Kashmir, Tamilnadu] Your answer is incorrect. The correct answer is: s = [Gujrat, Odisha, Kashmir, Tamilnadu] Question 14 Incorrect Mark 0.00 out of 1.00 What is the asymptotic relation between functions $f = \sqrt{n}$ and $g = (\log n)^7$? \bigcirc a. f = $\Omega(g$)(a) b. f? = O(g?) \bigcirc c. f? = $\Theta(g$?)od. None of these Your answer is incorrect. The correct answer is: f = $\Omega(g$ ϕ)

Correct		
Mark 1.00 out of 1.00		
Which of the following asymptotic re	elation is an equivalence relation?	
	·	
a. Θ		•
O b. O		
Ο c. Ω		
O d. ω		
e. All of these		
Your answer is correct.		
The correct answer is: Θ		
Question 16		
ncorrect		
Mark 0.00 out of 1.00		
If the complexity of an algorithm is d	defined as O(n ²), then out of the following notations, which can be used?	
If the complexity of an algorithm is d a. O(log n)	defined as O(n ²), then out of the following notations, which can be used?	×
	defined as O(n ²), then out of the following notations, which can be used?	×
 ☑ a. O(log n) ☐ b. O(n³) 	defined as O(n ²), then out of the following notations, which can be used?	×
 ☑ a. O(log n) ☑ b. O(n³) ☑ c. O(n¹) 	defined as O(n ²), then out of the following notations, which can be used?	
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 a. O(log n) b. O(n³) ✓ c. O(n¹) 	defined as O(n ²), then out of the following notations, which can be used?	
 ☑ a. O(log n) ☑ b. O(n³) ☑ c. O(n¹) 	defined as O(n ²), then out of the following notations, which can be used?	
 ☑ a. O(log n) ☑ b. O(n³) ☑ c. O(n¹) ☑ d. O(n⁴) Your answer is incorrect. The correct answers are: O(n³),	defined as O(n ²), then out of the following notations, which can be used?	
 ☑ a. O(log n) ☑ b. O(n³) ☑ c. O(n¹) ☑ d. O(n⁴) Your answer is incorrect.	defined as O(n ²), then out of the following notations, which can be used?	
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Question 17	
Correct Mark 1.00 out of 1.00	
Primitive data types are passed by which of the following in Java.	
○ a. Pass by reference	
O b. Both call by value and reference	
oc. The variable's pointer is passed	
d. Pass by Value	✓
Your answer is correct.	
The correct answer is:	
Pass by Value	
Question 18	
Correct	
Mark 1.00 out of 1.00	
String object in java is immutable?	
Select one:	
True ✓	
○ False	
The correct answer is 'True'.	
¬ Array (New)	
Jump to	
	LinkedList (New) ►