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	Friday, 2 February 2024, 11:47 AM
State	Finished
Time taken	Friday, 2 February 2024, 11:58 AM  11 mins 4 secs
	<b>17.00</b> out of 17.00 ( <b>100</b> %)
Question <b>1</b> Correct Mark 1.00 out of 1.00	
" <u>Array</u> implementat	ion of <u>Stack</u> is not dynamic", which of the following statements supports this argument?
Select one:	
1. space allocat	cion for <u>array</u> is fixed and cannot be changed during run-time Correct
<ul><li>2. All of these</li></ul>	
<ul><li>3. a runtime ex</li></ul>	ception halts execution
4. user unable	to give the input for <u>stack</u> operations
Question <b>2</b> Correct Mark 1.00 out of 1.00	
The number of mov  a. 7  b. 17  c. 15  d. None of the	ves required to solve the tower of Hanoi with number of disks n = 4 is  •
O e. 9	
Your answer is corre	ect.
The correct answer	is:

Question 3	
Correct  Mark 1.00 out of 1.00	
Mark 1.00 Out of 1.00	
Disks piled up one above the other represents a	
a. <u>Stack</u>	<b>~</b>
b. Linked List	
○ c. Queue	
○ d. <u>Array</u>	
○ e. All of these	
Your answer is correct.	
The correct answer is:	
<u>Stack</u>	
Question 4	
Correct  Mark 1.00 out of 1.00	
The function that returns the top element of a <u>stack</u> is:	
<ul> <li>a. None of these.</li> </ul>	
<ul><li>b. Push()</li></ul>	
© c. Peek()	•
O d. Pop()	
e. Empty()	
Your answer is correct.	
The correct answer is:	
The correct answer is:	
The correct answer is:	
The correct answer is:	

ation <b>5</b>	
1.00 out of 1.00	
r implementing recursive function the data structure used is	
a. <u>Tree</u>	
b. Queue	

© C. <u>Stack</u>	
O d. <u>Array</u>	
e. Linked List	
Your answer is correct.	
The correct answer is:  Stack	
Question 6	
Correct	
Mark 1.00 out of 1.00	
Which of the following real world scenarios would you associate with a "stack" data structure?	
a. Offering viva slots based on the priority of the group number	
○ b. Students standing in a line at the fee counter	
<ul><li>c. Piling up of chairs one above the other in a canteen</li></ul>	
○ d. None of these	
<ul> <li>e. Registering for a cultural event which selects on a first come first serve basis</li> </ul>	
Your answer is correct.	
The correct answer is:	
Piling up of chairs one above the other in a canteen	
Question <b>7</b>	
Correct	
Mark 1.00 out of 1.00	
Which of the following data structures can be used for parentheses matching?	
○ a. Linked List	
○ b. All of these	
○ c. Queue	
O d. binary tree	
⊕ e. <u>Stack</u>	
Your answer is correct.	
The correct answer is:	
<u>Stack</u>	

Question <b>8</b> Correct
Mark 1.00 out of 1.00
Which of the following data structures can be used for implementing a function that converts an integer (in decimal) to binary string?
○ a. <u>Array</u>
○ b. binary <u>tree</u>
C. Linked List
○ d. Queue
⊕ e. <u>Stack</u>
Your answer is correct.
The correct answer is:  Stack
Question 9
Correct Mark 1.00 out of 1.00
Which of the following statement(s) is NOT correct?
a. The value at the bottom of the <u>stack</u> is always null
○ b. <u>Stack</u> can be implemented using linked list
c. All of these are correct
d. Top of the <u>Stack</u> always contain the new element
<ul><li>e. <u>Stack</u> is a FIFO data structure</li></ul>
Your answer is correct.
The correct answer is:  Stack is a FIFO data structure
State 15 a Fill O data Structure

Question 10 Correct Mark 1.00 out of 1.00	
Stack is based on concept. (select all the correct ones)	
☑ a. FILO	~
b. FIFO	
☑ c. LIFO	<b>~</b>
d. LILO	
Your answer is correct.	
The correct answers are: LIFO,	
FILO	
Question 11 Correct	
Mark 1.00 out of 1.00	
Which of the following is not the application of stack?	
a. Integer to binary conversion	
b. Evaluating postfix expression	
○ c. Reversing the string	
○ d. None of these	
e. Asynchronous Data transfer	<b>~</b>
Your answer is correct.  The correct answer is:	
Asynchronous Data transfer	

Question 12
Correct  Mark 1.00 out of 1.00
Suppose <u>stack</u> contains elements in order 2, 5, 6, 7, 0, 1. How many pop operations should be executed to remove element '6' from the <u>stack</u> ?
○ a. 5
O b. 3
O c. 0
○ e. 1
Your answer is correct.
The correct answer is:
4
Question 13 Correct
Mark 1.00 out of 1.00
Which of the following data structure is used to check parenthesis in any expression?
○ a. Arrays
⊕ b. <u>Stack</u>
○ c. Linked List
O d. Queue
<ul><li>e. Priority Queue</li></ul>
Your answer is correct.
The correct answer is: <u>Stack</u>

Question 14
Correct
Mark 1.00 out of 1.00
Which of the following data structure is used in an "Undo" mechanism of any text editor?
a. Queue
○ b. <u>Stack</u> and Queue both
○ c. None of these
■ d. <u>Stack</u>
Your answer is correct.
The correct answer is:
<u>Stack</u>
Question 15
Correct
Mark 1.00 out of 1.00
Consider that the <u>stack</u> is already having one element inserted, now I want to insert a few more elements in it. top points to the topmost element in the <u>stack</u> , newnode refers to the element you want to insert and link refers to the previously inserted element in the <u>stack</u> . The value inserted by the user should be taken as the data for a newnode Which snippet can help you to insert elements at top?
Select one:

- 1. newnode->data = value; top->link = newnode;
- 2. newnode->data = value; newnode->link = top; top = newnode;

Incorrect

- 3. newnode->data = value; newnode->link = top;
- 4. newnode->data = value; newnode->link = top; top = newnode;

## Correct

The correct answers are: newnode->data = value; newnode->link = top; top = newnode;, newnode->data = value; newnode->link = top; top = newnode;

Question 16		
Correct		
Mark 2.00 out of 2.00		
Given the following sequence of letters and asterisks: BAL*A*GUR***US***AM*Y*** (a) Consider the <u>stack</u> data structure, supporting two operations push and pop. Suppose that for the above sequence, each letter (such as B) corresponds to a push of that letter onto the <u>stack</u> and each asterisk (*) corresponds a pop operation on the <u>stack</u> . Show the sequence of values returned by the pop operations. (b) Consider the queue data structure, supporting two operations insert and delete. Suppose that for the above sequence, each letter (such as B) corresponds to an insert of that letter into the queue and each asterisk (*) corresponds a delete operation on the queue. Show the sequence of values returned by the delete operations.		
Select one:  1. None		
○ 2. SAMYBALAGURU & GURUSAMYBALA		
3. YMASURUGALAB & BALAGURUSAMY	<b>~</b>	
○ 4. BALAGURUSAMY & YMASURUGALAB		
The correct answer is: YMASURUGALAB & BALAGURUSAMY		
Question 17 Complete		
lot graded		
Which among the given below is not an application of <a href="mailto:stack">stack?</a> Select one: <ul> <li>1. undo redo operation</li> </ul>		
2. Back-tracking		
3. Job Scheduling	Correct	
O 4. Recursion		
Correct		
The correct answer is: Job Scheduling		
Jump to		
	BST►	
✓ LinkedlistQuiz	RST	