<u>Dashboard</u> / My courses / <u>CS102_2024_1</u> / <u>General</u> / <u>Stack (New)</u>

Started on	Tuesday, 12 March 2024, 10:20 AM			
State	• Finished			
Completed on	Tuesday, 12 March 2024, 10:24 AM			
Time taken	4 mins 35 secs			
Grade	17.00 out of 17.00 (100 %)			
Question 1 Correct	"Array implementation of Stack is not dynamic", which of the following statements supports this argument?			
Mark 1.00 out of	Select one:			
1.00	1. user unable to give the input for stack operations			
	2. All of these			
	3. a runtime exception halts execution			
	 4. space allocation for array is fixed and cannot be changed during run-time 			
Question 2 Correct Mark 1.00 out of 1.00	Correct The correct answer is: space allocation for array is fixed and cannot be changed during run-time The number of moves required to solve the tower of Hanoi with number of disks n = 4 is a. 17 b. 9 c. 15 d. 7 e. None of these Your answer is correct. The correct answer is: 15			

Question 3 Correct Mark 1.00 out of	Disks piled up one above the other represents a	
1.00	○ a. Queue	
	○ b. Linked List	
		~
	○ d. All of these	
	○ e. Array	
	Your answer is correct. The correct answer is: Stack	
Question 4 Correct Mark 1.00 out of 1.00	The function that returns the top element of a stack is:	
	a. Pop()	
	b. Peek()	~
	o c. Push()	
	O d. Empty()	
	e. None of these.	
	Your answer is correct.	
	The correct answer is: Peek()	
Question 5 Correct	For implementing recursive function the data structure used is	
Mark 1.00 out of 1.00	a. Array	
	O b. Tree	
	○ c. Queue	
	o d. Linked List	
	e. Stack	~
	Your answer is correct.	
	The correct answer is:	

Stack

Question 6 Correct Mark 1.00 out of	Which of the following real world scenarios would you associate with a "stack" data structure?		
1.00	a. Offering viva slots based on the priority of the group number		
	 b. Students standing in a line at the fee counter 		
	c. Piling up of chairs one above the other in a canteen	~	
	d. Registering for a cultural event which selects on a first come first serve basis		
	e. None of these		
	Your answer is correct.		
	The correct answer is: Piling up of chairs one above the other in a canteen		
Question 7	Which of the following data structures can be used for parentheses matching?		
Correct Mark 1.00 out of	Which of the following data structures can be used for parentheses matering.		
1.00	○ a. Queue		
	○ b. Linked List		
	○ c. binary tree		
	○ d. All of these		
	e. Stack	~	
	Your answer is correct.		
	The correct answer is: Stack		
Question 8 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. Linked List		
	b. Stack	~	
	o c. binary tree		
	O d. Queue		
	○ e. Array		
	Your answer is correct.		
	The correct answer is: Stack		

Correct Mark 1.00 out of	Which of the following statement(s) is NOT correct?	
1.00	a. The value at the bottom of the stack is always null	
	 b. All of these are correct 	
	c. Stack is a FIFO data structure	~
	Od. Top of the Stack always contain the new element	
	e. Stack can be implemented using linked list	
	Your answer is correct.	
	The correct answer is: Stack is a FIFO data structure	
Question 10 Correct Mark 1.00 out of	Stack is based on concept. (select all the correct ones)	
1.00	☑ a. FILO	~
	☑ b. LIFO	~
	c. FIFO	
	d. LILO	
	Your answer is correct.	
	The correct answers are: LIFO,	
	FILO	
Question 11 Correct	Which of the following is not the application of stack?	
Mark 1.00 out of 1.00	a. Reversing the string	
1.00	○ b. None of these	
	c. Evaluating postfix expression	
	 d. Integer to binary conversion 	
	e. Asynchronous Data transfer	~
	Your answer is correct.	
	The correct answer is: Asynchronous Data transfer	

Question ${\bf 9}$

Question 12 Correct	Suppose stack contains elements in order 2, 5, 6, 7, 0, 1. How many pop operations should be executed to remove element '6' from the stack?
Mark 1.00 out of 1.00	○ a. 0
	○ c. 3
	O d. 1
	○ e. 5
	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. Stack
	○ b. Linked List
	c. Priority Queue
	O d. Arrays
	○ e. Queue
	Your answer is correct.
	The correct answer is: Stack
Question 14	Which of the following data structure is used in an "Undo" mechanism of any text editor?
Correct Mark 1.00 out of	a. Stack and Queue both
1.00	O b. Queue
	○ c. Stack ✓
	O d. None of these
	Your answer is correct.
	The correct answer is: Stack

Correct Mark 1.00 out of 1.00	the previously inserted element in the stack . The value inserted by the user should be taken as the da				
	Select one:				
	1. newnode->data = v	value; newnode->link = top; top = newnode	e; 🗸	Correct	
	2. newnode->data = v	value; top->link = newnode;			
	3. newnode->data = v	value; newnode->link = top;			
	○ 4. newnode->data = v	value; newnode->link = top; top = newnod	e;		
	Correct				
	The correct answers are: n newnode->link = top; top	ewnode->data = value; newnode->link = to = newnode;	op; top = newnode;, newnode->data	= value;	
Question 16 Correct Mark 2.00 out of 2.00	structure, supporting two corresponds to a push of a Show the sequence of value two operations insert and insert of that letter into the	nce of letters and asterisks: BAL*A*GUR***Loperations push and pop. Suppose that for that letter onto the stack and each asterisk (use returned by the pop operations. (b) Condelete. Suppose that for the above sequence queue and each asterisk (*) corresponds and by the delete operations.	the above sequence, each letter (suc (*) corresponds a pop operation on the sider the queue data structure, suppose, each letter (such as B) correspond	h as B) ne stack. orting s to an	
	Select one:				
	1. SAMYBALAGURU 8	. GURUSAMYBALA			
	2. YMASURUGALAB 8	BALAGURUSAMY		~	
	3. BALAGURUSAMY 8	YMASURUGALAB			
	O 4. None				
	The correct answer is: YM	ASURUGALAB & BALAGURUSAMY			
Question 17 Complete	Which among the given b	elow is not an application of stack?			
Not graded	Select one:				
	1. Back-tracking				
	2. undo redo operation	n			
	3. Job Scheduling			Correct	
	4. Recursion				
	Correct				
	The correct answer is: Job	Scheduling			
■ LinkedList (I)	New)	Jump to	StackQueue (I	Vew) ►	

Consider that the stack is already having one element inserted, now I want to insert a few more elements in it. top

Question 15