MCQ_Stack

1.	Process of inserting an element in stack is called						
	a) Create	b) Push	c) Evaluation	d) Pop			
2.	Process of removing an element from stack is called						
	a) Create	b) Push	c) Evaluation	d) Pop			
3.	In a stack, if a user tries to remove an element from empty stack it is called						
	a) Underflow	b) Empty collection	c) Overflow	d) Garbage Collection			
4.	Pushing an eleme becomes	nt into stack already h	naving five elements and	d stack size of 5 , then stack			
	a) Overflow	b) Crash	c) Underflow	d) User flow			
5.	Which of the following is not application of stack?						
	a) A parentheses balancing program. b) Evaluation of Prefix notation.						
	c) Compiler Synta	x Analyzer.	d) Evaluation of postfix	e) All are application of stack			
6.		mber of parentheses		nce of parentheses is balanced. k AT ANY ONE TIME when the			
	a) 1	b) 2	c) 3	d) 4 or more			
7.	Consider the usual algorithm for determining whether a sequence of parentheses is balanced. Suppose that you run the algorithm on a sequence that contains 2 left parentheses and 3 right parentheses (in some order). The maximum number of parentheses that appear on the stack AT ANY ONE TIME during the computation?						
	a) 1	b) 2	c) 3	d) 4 or more			
8.	What is the value a) 64	of the postfix express b) -18	sion 6 3 2 4 + - *: c) Something betweer	n 5 and 15 d) None			
9.	algorithm to conv	ert the expression fro	12). Suppose that we are om infix to postfix notati T ONE TIME during the c) 3	on. The maximum number of			
10.	The postfix form of a) AB+ CD*E – FG c) AB + CD* E – *F	•	B)*(C*D- E)*F / G is? b) AB + CD* E – F **G d) AB + CDE * – * F *G				

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11.	The data structur a) Stack	e used to check if a b) Queue	•	ontains balance Array	d parenthesis is? d) Tree		
12.	What data structorecursive algorith a) Linked List	m?	ly likely see in tack	a non recursive	implementation of a d) Tree		
13.	on a	-		·	milar to manipulating	data	
14.	a) Heap The postfix form (a) *AB/CD+	, ,	, ,	a) S c) A*BC+/D	tack d) ABCD+/	*	
15.	Which data struct	ture is needed to co b) Tree	nvert infix not c) Queue		notation? tack		
16.		f A-B/ (C * D ^ E) is? b) -ABCD*/		-A/B*C^DE	d) -A/BC*^DE		
17.	What is the result a) X	t of the following op b) Null	eration? Top	(Push (S, X)) c) S	d) None		
18.	The prefix form o a) + pq - *rt	f an infix expressior b) – +pqr *	-		d) – + * pqrt		
19.	Which data struct	ture is used for impl b) Stack	ementing reco	ursion? d) L	ist		
20.	The result of eval	uating the postfix ex		. 6, +, *, 4, 9, 3, / 650	/, +, * is? d) 588		
21.	L. Convert the following $(A + B \land D)/(E - F)+G$ into its equivalent postfix expressions a) $(A B D \land + E F - / G +)$ b) $(A B D + \land E F - / G +)$ c) $(A B D \land + E F/- G +)$ d) None of the mentioned						
22.		owing statement(s) sed to implement St O data structure	ack b) Stac	ck Top always co	are NOT correct? Intain the new node at the bottom of the si	tack	
23.		owing operation per ush(2); Push(3); Pop			(5);		

	After the completion of all operation, the number of elements present in stack are								
	a) 1	b) 2	С) 3		d)			
24.	Which of the fol a) Reversing a st c) Implementation	ring	b		ion of post		sion		
25.	25. The type of expression in which operator a) Infix Expression b) Prefix Expre				•				
26	26. If the elements "A", "B", "C" and "D" are placed in a stack and are deleted one at a time, wha is the order of removal?								
	a) ABCD	b) [СВА		c) DCAB	d) ABDC			
27	Which one of th	e following is a	n applicatio	on of Stac	k Data Str	ucture?			
	a) Managing fu c) Arithmetic e	nction calls xpression evalu		•	k span pro e above	blem			
 30. Which of the following real world scenarios would you associate with a stack data structure? a) piling up of chairs one above the other b) people standing in a line to be serviced at a counter c) offer services based on the priority of the customer d) all of the mentioned 31. What does the following function check for? (all necessary headers to be included and function is called from main) 									
#	ir ir }stack; int functic if	truct stack { nt top; nt item[MAX]; on(stack *s) f(s->top == -1) return else return 0;	{ 1;						
a) 1	full stack	b) inva	lid index	c) empt	y stack		d) infinite stack	ζ	
32. What does 'stack underflow' refer to? a) accessing item from an undefined stack c) removing items from an empty stack b) adding items to a full stack d) index out of bounds exception									

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33. What is the time complexity of pop() operation when the stack is implemented using an array?									
	a) O(1)	b) O(n)	c) O(logn)		d) O(nlogn)				
34.	34. What will be the output after performing these sequence of operations:								
	push(20); push(4); top(); pop(); pop(); push(5); top();								
	a) 20	b) 4	c) stack under	flow		d) 5			
35.	35. Which of the following data structures can be used for parentheses matching?								
	a) n-ary tree	b) que	ue	c) prio	rity queue	d) stack			
36.	36. What does 'stack overflow' refer to?								
	a) accessing item from an undefined stack			b) adding items to a full stack					
	c) removing items from an empty stack d)			d) index out of bounds exception					
37.	37. Which of the following array position will be occupied by a new element being pushed for a								
	stack of size N elements (capacity of stack > N, C program).								
	a) S[N-1]	b) S[N].	c) S[1].		d) S[0]				
38.	38. Which of the following array element will return the top-of-the-stack-element for a stack of								
	size N elements (capacity of stack > N).								
	a) S[N-1].	b) S[N].	c) S[N-	2].	d) S[N-	+1].			
39.	39. Minimum number of queues to implement stack is,								
	a) 3	b) 4	c) 1		d) 2				