		er.
	1.	The current function runs in parallel
	2.7	After it ends, the old execution context is retrieved from the stack
	3.	The execution context associated with the current function is remembered in a special data structure called execution context stack
		pose the correct answer from the options given below.
Ops:		Only 1 and 3
	В.	Only 1 and 2
	C.	○ All 1, 2 and 3
	D.	Only 2 and 3
0.3	Don	th-first search (DFS) traversal can be used for which of the following applications?
Q 3	Deb	distinct search (b) 3) that each of the later of the late
	1. T	o find strongly connected components of a graph
		opological sorting
		or detecting cycle in a graph

	C. () 1018
	D. () 1010
1	
Q 5	Suppose there is a 1-D array Arr[24] with the leaves to
Ops:	Suppose there is a 1-D array Arr[24] with the lower bound as 1 and starting base address as 1030. Find the address of Arr[21] if the size of each depoint a 4.
· `	
	B. ( 1110
	C 0 1180
	D. 950
Q 6	If you are using merge sort, then which of the following statements are correct that need to be considered?
	It cannot work well with large datasets
	2. It is preferred for linked lists
	3. It needs auxiliary memory for sorting
	3. It needs auxiliary memory for sorting

	D. Only 1 and 2
Q 4	Suppose there is a Column major order 3 x 4 integer array with the base address as 1000. Find out the address of element A[3, 2], Consider the column major order 3 x 4 integer array with the base address as 1000. Find out the address of element A[3, 2], Consider the column major order 3 x 4 integer array with the base address as 1000. Find out the address of element A[3, 2], Consider the column major order 3 x 4 integer array with the base address as 1000. Find out the address of element A[3, 2], Consider the column major order 3 x 4 integer array with the base address as 1000.
Ops:	A. () 1020 \$\bar{\bar{\bar{\bar{\bar{\bar{\bar{
	B. ( 1016
1	C. ( 1018
	D. () 1010
Q 5	Suppose there is a 1-D array Arr[24] with the lower bound as 1 and starting base address as 1030. Find the address of Arr[21] if the size
Ops:	A.
	B. ( 1110
	C. 0 1180
	D. () 950
1	

		Unity 2 and 3
	Q 3	Depth-first search (DFS) traversal can be used for which of the following applications?
		1. To find strongly connected components of a graph 2. Topological sorting 3. For detecting cycle in a graph
	Ops:	B. Only 2 and 3 C. All 1, 2 and 3 D. Only 1 and 2
1 2	Q 4	Suppose there is a Column major order 3 x 4 integer array with the base address as 1000. Find out the address of element A[3, 2]. Considered the second seco
	Ops:	A. () 1020

		If you are using merge sort, then which of the following statements are correct that need to be considered?  1. It cannot work well with large datasets 2. It is preferred for linked lists 3. It needs auxiliary memory for sorting  Choose the correct answer from the options given below.  A All 1, 2 and 3  B Only 2 and 3  C Only 1 and 2  D Only 1 and 3
14	Ops:	Which of the following is NOT a type of linked list?  A.     None of the mentioned options   Doubly linked list

	D. Only 1 and 3
Q 7	Which of the following is NOT a type of linked list?
Ops:	A. None of the mentioned options
	B. O Doubly linked list
	C. Circular linked list
	D.
QB	Consider an array A={11, 2, 34} and an array B={0, 4, -3}. An array C has been made by joining array A and B, in order (C has six elements). Calculate the sum of the first and last element present in array C.
Ons	
Opa,	A. O 0
op.,	A. O 1
Ора	

Q 9	John has written a program that traverses a given an array linearly and outputs the sum of all the elements of an array which are divisible by 1. If an array X= {1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9} is fed into John's program, what will be the output?	١
Opsi	{1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9} is fed into John's program, what will be the output?	١
	B ( ) 12	١
	C OB	l
	D. ( ) 18	١
Q 10	Consider a linked list "X", with the following properties:	١
	). Last node's link field points to the first node of the list.	١
	ii. It allows access to the middle nodes, without starting at the beginning.	١
	Identify the type of X.	١
Opsi	A. Circularly linked list	1
	8. Singly Linked List	
	C. Header linked list	
	D. +   None of the mentioned options	_
		_

Algorithms

15 questions, 1 mark each

Ops: A. ② 12

B. ② 14

C. ③ 16

D. ② 8

Q 10 Consider an array A={11, 2, 34} and an array B={0, 4, -3}. An array C has been made by joining array A and B, in order (C has six elements). Calculate the sum of the first and last element present in array C.

Ops: A. ③ 11

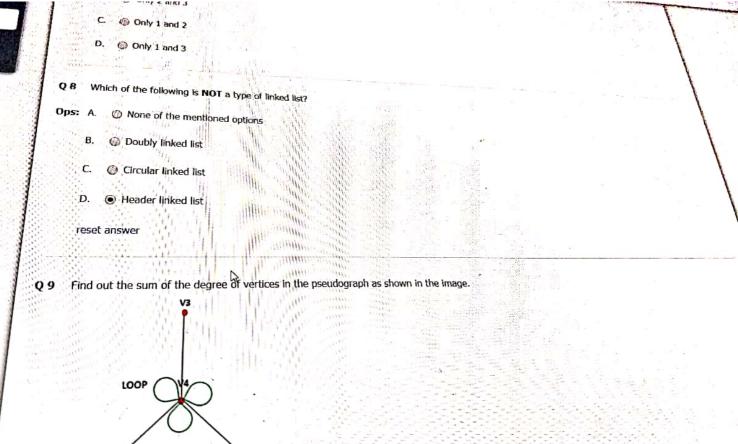
B. ③ 8

C. ③ 1

D. ① 0

2 Algorithms

0 out of 15 questions attempted. Attempt?



Q 7 If you are using merge sort, then	which of the following	statements are corr	ect that need to be con	sidered?		
1. It cannot work well with large of	latacote		1 1 1 mg 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1
2. It is preferred for linked lists						
3. It needs auxiliary memory for s						
Choose the correct answer from t						
calouse the different allower from t	ne options given belo	JW.				
Ops: A.	THE STATE OF THE S					
	The same					
B. Only 2 and 3	The sound	State of the state				
	in the same	The state of the s				
C. Only 1 and 2	The man	and the second				
	111	THE STATE OF THE S	1. A			
Out of and 3	11 1 3000	200				
D. Only 1 and 3		1000	121		57_26   5 1   10   11   12	
Zamana and the State of the		11. 11.			·	
manufactoria (h.) and and a fill a fi			XX = I		# 5 1 3 PL 8	
8 Which of the following is NOT a	type of linked list?					
8 Which of the following is NOT a	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
anna much age						
ps: A.   None of the mentioned of	ptions					-16
B. O Doubly linked list						

Q 7 If you are using merge sort, then wh	nich of the following statem	ents are correct that need t	be considered?	
It is professed for the large dat	asets		4")	
2. It is preferred for linked lists     3. It needs auxiliary memory for sort	The state of the s			
Choose the correct answer from the	options given below			
ps: A.				
B. Only 2 and 3				
C.   Only 1 and 2				
D.   Only 1 and 3				
ALL STATE OF THE S				
	Clintond liet?			
Which of the following is NOT a type	be of linked lists			
A. None of the mentioned opt	tions			
A. None of the mentioned opt				

		Lis <sup>Th</sup>				
6 John has written a program tha {1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9	t traverses a given as					
{1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8, 9	is fed into John's pr	ogram, what will be	utputs the sum of all	the elements of an arra	y which are divisible by 3.	If an array x=
s: A. 🔘 18	THE SHE		are output?			
	The state of			Ne Ne		1
B ⊕ 6	The state of the s					\
	- I' - uttur					1
C. 21		The same	A - 1012m VI			
2		This will be a state of the				
5 12		- Manny Taplan				
D. 12		with the state of	The state of the s			
		The state of	380			
and the state of t		a a tribute of the same				
If you are using merge sort, the	n which of the folk	owing statements	are correct that nee	ed to be considered?		
haranne and a land		1111	***			
1. It cannot work well with large	e datasets					
1. It cannot work well with large		• •				
2. It is preferred for linked lists					1 2 2 2 1	
B. It needs auxiliary memory for	sorting					
	12/25 1 2 2 2 2					
hoose the correct answer from	the options given	pelow.				

Q 5 Breadth First Traversal can be	used for which of the following a	Canolications		n = n = =
To find all neighbouring loca     To Social Naturals				
In Social Networking websit     For detecting cycle in any series.	tions in GPS Navigation systems			
3. For detecting cycle in any	and the people within a give	ren distance		
	Who - while			
Choose the correct answer fro	m the options often but		10 *T.M. #900	
	- CALL			
Ops: A. Only 1 and 3	All Salane			
	- The Souther Comme			
B. (a) All 1, 2 and 3	The same of their			
	The summer comments			
	A Part of the Continue of the	Tiller parent		
C. (i) Only 2 and 3	A Marin of Friday	culture and the second		
		and the second		
D. (i) Only 1 and 2		All the second s		
	그 얼마는 그렇게 아이 있어	THE REAL PROPERTY.		
Maria Company				
John has written a program th			or of all the elements of a	array which are di
John has written a program th	iat traverses a given an arra	y linearly and outputs the s	sum of all the elements of the	
{1, 2, 4, 3, 6, 7, 3, 5, 4, 7, 8,	9) is fed into John's program	n, what will be the output?		
{1, 2, 4, 3, 6, 7, 3, 3, 7, 7, 5,				
: A. ① 18				
	그 원 이 보다, 많은 보인하였는데			
In DATE and the Control of the Contr				
B. © 6				
	그 네 아내님의 생각했다.			
	the second secon	at the term of the term of the term of		A. 196. B. S. S.

04	Suppose there is a 1-D a	rray Arr[10] with the lower	• Andrew	100			. P N I
	Corner Samuel Con	and lower	bound as 1 and start	ing base address as	1020 Find the add		
Ops:	A. 1024	rray Arr[10] with the lower			toso. This the address i	of Art[5] If the size of ea	ch element is 2.
	B. 1028						
	C 1016	Killing and the					190
	3347 - 624 4 4 5 11 1	19 11 11 11 11 11 11 11 11 11 11 11 11 1					
1	D. 🔘 1012	The south					
-			num				
		His County	The Park of the Pa				
Q 5 B	readth First Traversal c	an be used for which of t	he following applica	ations?			
		1 1 4 100					
	To God all saturbles at	to the same of				Time :	
		ng locations in GPS Navig					
2.	In Social Networking v	websites to find the peop	ole within a given d	listance			
	For detecting cycle in	any granh					
The state of	Tor detecting cycle in	any graph		A		Estation of	
Ch	oose the correct answ	er from the options give	en below.				
S. CIN	bose the correct and	articles of the					
					The state of the s		
Ops: A.	Only 1 and 3						
Ops. A.	Comy 1 and						
				*			구별경
D	All 1, 2 and 3						
В.	All 1, 2 did 5						
	0 0 L 2 and 2						
C.	Only 2 and 3	7 7 5 6					
	12		F F F F F F				
D.	Only 1 and 2	* D. T. S. C. S. C	3 3 3 3 3 3	33333			
D.	J, =		333333	8333333	23223		
						The second second	

1	C.   Adaptive and number of swaps	
	D. Number of comparisions and Stability	
Q	Suppose there is a Column major order 3 x 4 integer array with the base address as 1000. Find out the address element as 2.	s of element A[3, 2]. Consider the size
Op	s: A. @ 1020	
	B. (ii) 1010	
	C. (1018)	
	D. (i) 1016	
QЗ	Suppose there is a 1-D array Arr[24] with the lower bound as 1 and starting base address as 1030.	ind the address of Arr[21] if the si
Ops:	A. © 1180	<b>\</b>
	B. (i) 1110	

C. © 970		
D #2 ere		
D. ⊚ 950 🗘		
Q 4 Suppose there is a 1-D array Arrival with the		
Q 4 Suppose there is a 1-D array Arr[10] with the lower bound as 1 and starting	g base address as 1020.	Find the address of Arr[5] if the size of ex
Ops: A. © 1024		
B. © 1028	E-	
C. 0 1016		
D. (i) 1012		
D. 0 1012		
	1	
Breadth First Traversal can be used for which of the following application	ions?	
1. To find all neighbouring locations in GPS Navigation systems		
In Social Networking websites to find the people within a given dis-	tance	
3. For detecting cycle in any graph		· 1
[대통원 - The Part No. 10 - The		