D. O 10		
Reset	₩.	
number of swappings ne 10, 14, 8, 5, 11, 1, 7	eucu.	
10, 14, 8, 5, 11, 1, 7		
10, 14, 8, 5, 11, 1, 7 Ops: A. ① 14		

14-7-4

Q 09. Evaluate the given postfix expression.

23+5*23+4+*

Ops: A. \(\) 200

Ĭ

B. **210**

C. 225

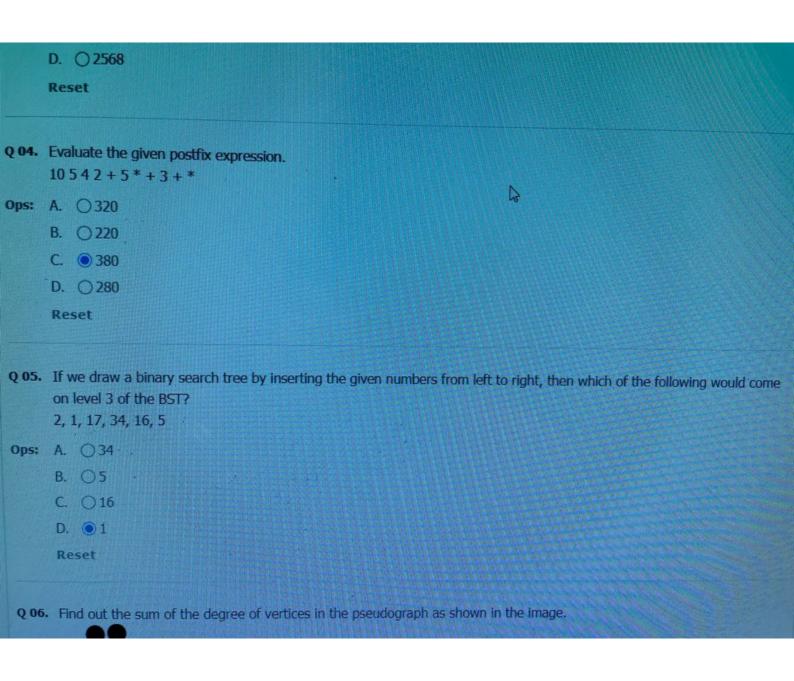
D. \(\) 220

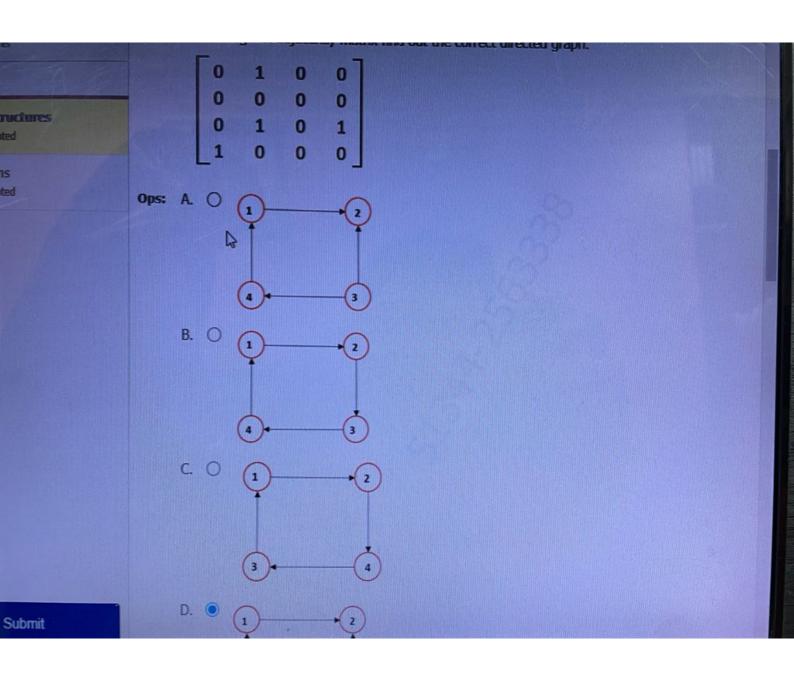
Reset

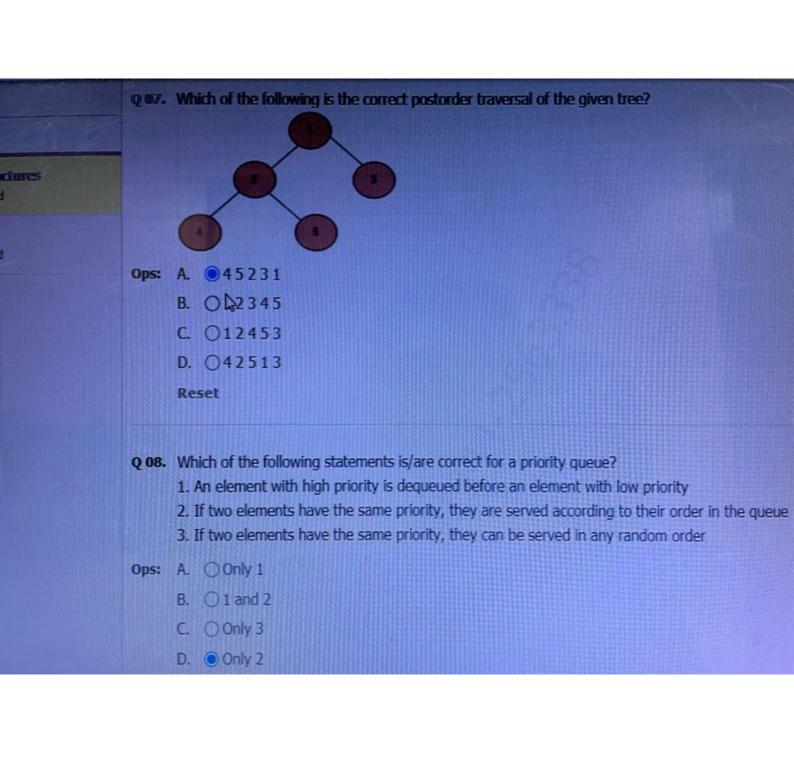
O 10. If you are using Rubble sort for sorting the given numbers

	If the base address of a two dimensional array A[10][20] is 100, then find out the address of an element A[2][6] in the
	**Acrossor
	**Assume 4 words per memory cell and elements are arranged in row major order.
Ops:	A. O 245
	B. O 284
	C. ⊚ 286
	D. ○278
	Reset
0.00	
Q UZ.	If you are using Bubble sort for sorting the given numbers in ascending order, then find out the number of swappings needed.
	2, 9, 3, 6, 8, 1, 5
Once	A. O11
Ops.	B.
	C. Q10
	D. 013
	Reset
Q 03.	If the base address of a two dimensional array A[70][10] is 600, then find out the address of an element A[2][7] in the
	array. **Assume 4 words per memory cell and elements are arranged in column major order.
Ops:	A. ○2658
	B. ○2345
	C.
	D. ○ 2568
1	Reset

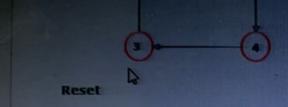
Find out the maximum number of nodes present in a binary tree of height 5.
A. ()32
B. ⊙ 16
C O31
D. ○15
Reset
Which of the following statements is incorrect for Linked List data structure?
A. Memory allocation from stack
B. O It occupies more memory than array
C. Memory allocation from Heap
D. Size is not fixed
Reset
Find out the sum of the degree of vertices in the pseudograph as shown in the image.
R Commence of the Commence of
A 011
B. ○6
C. 012
D. 8 Reset







Q 09.	Linked lists are used to implement -
	1. Stack
	2. Queue
	3. Trees
Ops:	A. O All 1, 2, and 3
	B. O 2 and 3
	C. O 1 and 2
	D. O 1 and 3
	Reset
0.10	Which of the following data structures is non-linear?
Ops:	A. O Linked List
	B. O Array
	C. Graph
	D. O Stack



Q 07. Evaluate the given postfix expression.

10542+5*+3+*

Ops: A. 0220

B. 0280

C. 380

D. \(\)320

Reset

Q 08. Find out the array representation of the given max heap, if the value 20 is deleted from it. 22, 21, 20, 19

Ops: A. O 21, 19, 22

B. 019, 21, 22

C. O21, 22, 19

D. 22, 21, 19

Reset

Q 09. If the base address of a two dimensional array A[10][20] is 100, then find out the address

Q 03. Find out the sum of the degree of vertices in the pseudograph as shown in the image.



Ops: A. 012

B. 06

C. 08

D. 011

Reset

Q 04. In a min heap, the left child is located at -

Ops: A. Ok/2 index

.B. O 2*k index

C. ○ (k+1)/2 index

Reset

Q 05. Which of the following is the correct postorder traversal of the given trace

	C ()1, 77, 19
	D. @ 22, 21, 19
	Reset
09.	If the base address of a two dimensional array A[10][20] is 100, then find out the address of an element A[2][6] in the array. **Assume 4 words per memory cell and elements are arranged in row major order.
ps:	A. O 284
	B. ○245
	C. 0286
	D. • 278
	Reset
Q 10	If the base address of a two-dimensional array A[30][50] is 500, then find out the address of an element A[5][10] in an array. **Assume 4 words per memory cell and elements arranged in row-major order.
Ops:	: A. 🔾 1540
	B. • 1160
	C. 🔾 1189
	D. 🔾 1124
	Reset
	SESTION 02/02 Previous Section Next Section

Q 01.	If the base address of a two o	dimensional array A[70][10] is 600, then find out the address of an
	element A[2][7] in the array.	**Assume 4 words per memory cell and elements are arranged in
	column major order.	

Ops: A. \(\) 2568

В. Q2345

C. 02658

D. **②** 2543

Reset

Q 02. Find out the array representation of the given min heap, if the value 2 is deleted from it. 1, 2, 3, 4

Ops: A. O1, 4, 3

B. 04, 3, 1

C. O3, 4, 1

D. O1, 3, 4

Reset

Q 01. Which of the following statements is incorrect for Linked List data struct	is incorrect for Linked List data structure?	. Which of the following statement
--	--	------------------------------------

Ops: A. Memory allocation from Heap

B. O It occupies more memory than array

C. O Size is not fixed

D.

Memory allocation from stack

Reset



Q 02. Find out the sum of the degree of vertices in the pseudograph as shown in the image.



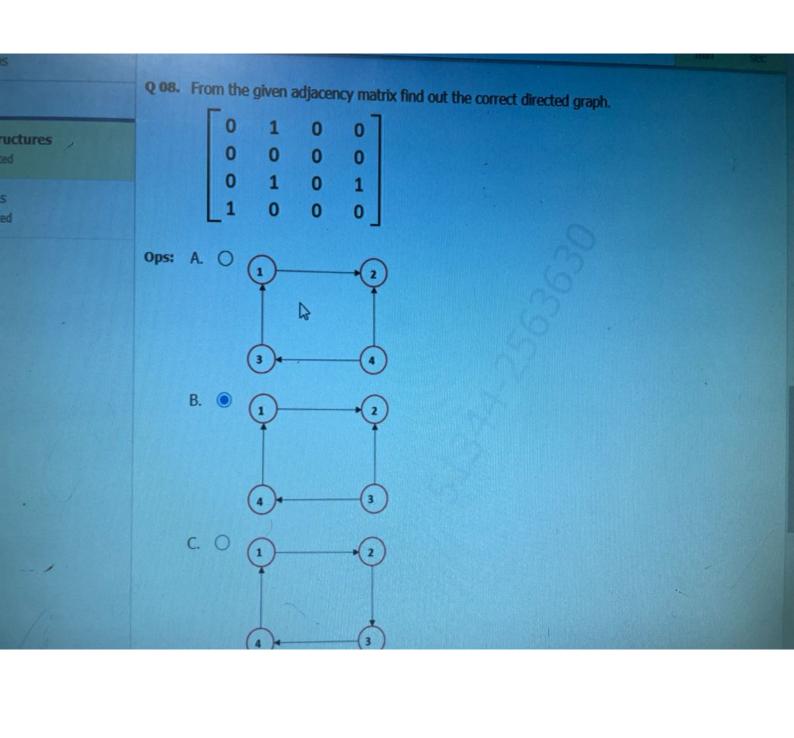
Ops: A. 09

B. 010

C. O11

D. •5

D. Only 2 Reset Q 05. Which of the following data structures is non-linear? Ops: A. O Array B. O Stack C. O Linked List D. Graph Reset Q 06. Find out the array representation of the given min heap, if th



Reset

Q 03. If the base address of a two dimensional array A[10][20] is 100, then find out the address of an element A[2][6] in the array.

**Assume 4 words per memory cell and elements are arranged in row major order.

Ops: A. 0284

B. 0278

C. 0286

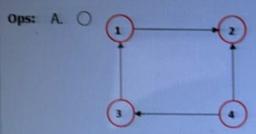
D. 0245

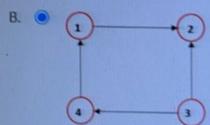
Reset

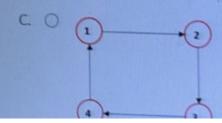
Q 04. From the given adjacency matrix find out the correct directed graph.

0 1 0 0 0 0 0 0 0 1 0 1 1 0 0 0 Q 06. From the given adjacency matrix find out the correct directed graph:

0	1	0	0
0	0.0	0	0
0	1	0	1
1	0	0	0



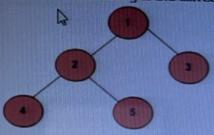




- C (k+1)/2 index
- D. @ 2*k+1. index

Reset

Q 05. Which of the following is the correct postorder traversal of the given tree?



Ops: A. 045231

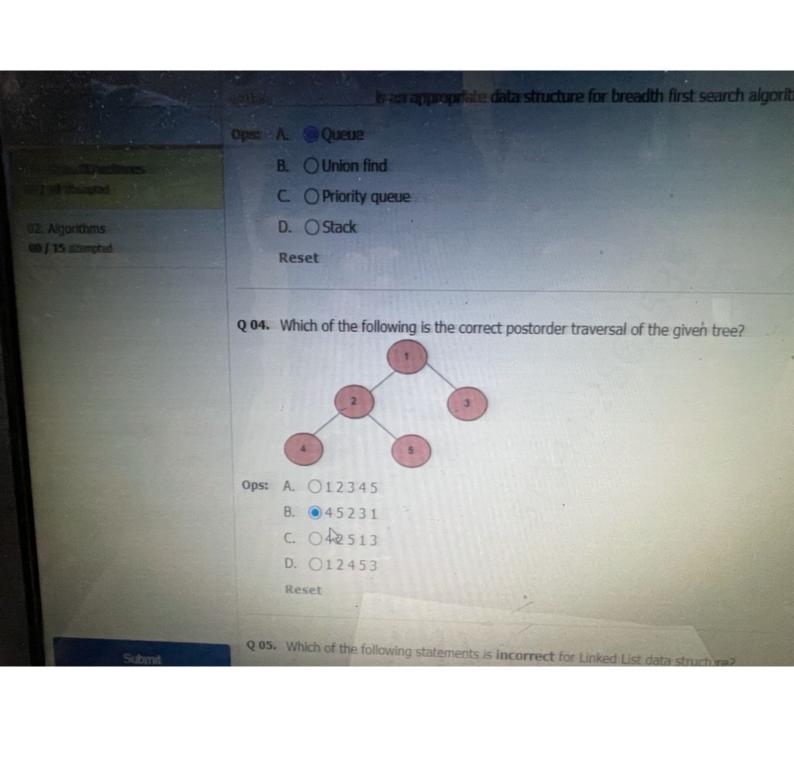
- B. 012453
- C. 012345
- D. 042513

Reset

Q 06. From the given adjacency matrix find out the correct directed graph.

0	1	0	0
0	0	0	0
0	1	0	1
_1	0	0	0

Q 05. Find out the array representation of the given max heap, if the value 20 is deleted from it. 22, 21, 20, 19 ires Ops: A. ()21, 22, 19 B. 019, 21, 22 C. 22, 21, 19 D. 021, 19, 22 Reset Q 06. Match the given data structures with their memory allocation type. **Data Structures** 1. Arrays 2. Linked Lists Memory is allocated from: A. Stack B. Heap Ops: A. O 1-B, 2-A B. 0 1-A, 2-B C. 01-B, 2-B



0 05.	Which of the following statements is incorrect	for Linked List data struc	ture?
Ops: /	A. O It occupies more memory than array		
	B. Memory allocation from stack		
	C. Memory allocation from Heap		
	D. O Size is not fixed		
	Reset		
	Find out the array representation of the given min 1, 2, 3, 4 A. O 4, 3, 1 B. O 1, 4, 3	n heap, if the value 2 is de	leted from it.
	C. O1, B, 4 D. O3, 4, 1		

Reset

Q 07. Evaluate the given postfix expression.

10 5 4 2 + 5 * + 3 + *

Q 07. Evaluate the given postfix expression. 10 5 4 2 + 5 * + 3 + *

Ops: A. 0280

B. 380

C. 0220

D. \(\) 320

Reset

Q 08. If we draw a binary search tree by inserting the given numbers fro would be the height of the BST?

1, 4, 3, 5, 7, 9

Ops: A. Q4

	Reset	
Q 03.	In a min heap, the left child is located at -	
Ops:		
	B. O 2*k index	
	C.	
	D. (k+1)/2 index	
	2. O(1.1/2 "QCX	
Q 04.	In a priority queue, if two elements have the same priority, then how should they be serv	vedī
Q 04.	Reset	ved?
	In a priority queue, if two elements have the same priority, then how should they be served. According to their order in the queue 2. According to a random selection	ved?
	In a priority queue, if two elements have the same priority, then how should they be served. According to their order in the queue 2. According to a random selection	ved?
Q 04. Ops:	In a priority queue, if two elements have the same priority, then how should they be served. According to their order in the queue 2. According to a random selection A. O Both 1 and 2	ved?
	In a priority queue, if two elements have the same priority, then how should they be served. According to their order in the queue 2. According to a random selection A. O Both 1 and 2 B. Only 1	ved?

	If we draw a binary search would be the height of the 1, 4, 3, 5, 7, 9	BST?		to right, the
Ops:	A. O4			
	B. 3			
	c. O5			
	D. O2	L.		
	Reset			
0 09.	If you are using Bubble so	rt for sorting the given numbers	in acconding ord	or than tind
Q 09.	If you are using Bubble son number of swappings need	rt for sorting the given numbers ded.	in ascending ord	er, then find
Q 09.			in ascending ord	er, then find
	number of swappings need		in ascending ord	er, then find
	number of swappings need 2, 9, 3, 6, 8, 1, 5		in ascending ord	er, then find
	number of swappings need 2, 9, 3, 6, 8, 1, 5 A. 12		in ascending ord	er, then find