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6

Consider the below string matching algorithm where T - text, and P - pattern. Find out H K(T,P)

1 n=1.length

2 m = P.length

3 for s = 0 to n-m

4 #P[1.m] = T[s+1.s+m]

5 print "Pattern occurs with shift" a

Select one:

@ a O(n)

6 b. O(1)

C Others

@ d. O((n-m+1)m)

@ e. Oun-metj)

Question 12

Not yet answered Marked out of 2.00

P Flag question

```
Consider the below method of a linear queue data structure. What can be the method "XX"?
public int XX() {
    if (nitems == 0) {
       System.out.println("Queue is empty");
       return -99;
     else {
        nitems-:
        return queArray[front++];
  Select one:
        a. delete()
        b. remove()
        c. insert()
        d. peekFront()
         e. push()
```

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36

answered

out of

question

Consider the following max heap represented in an array

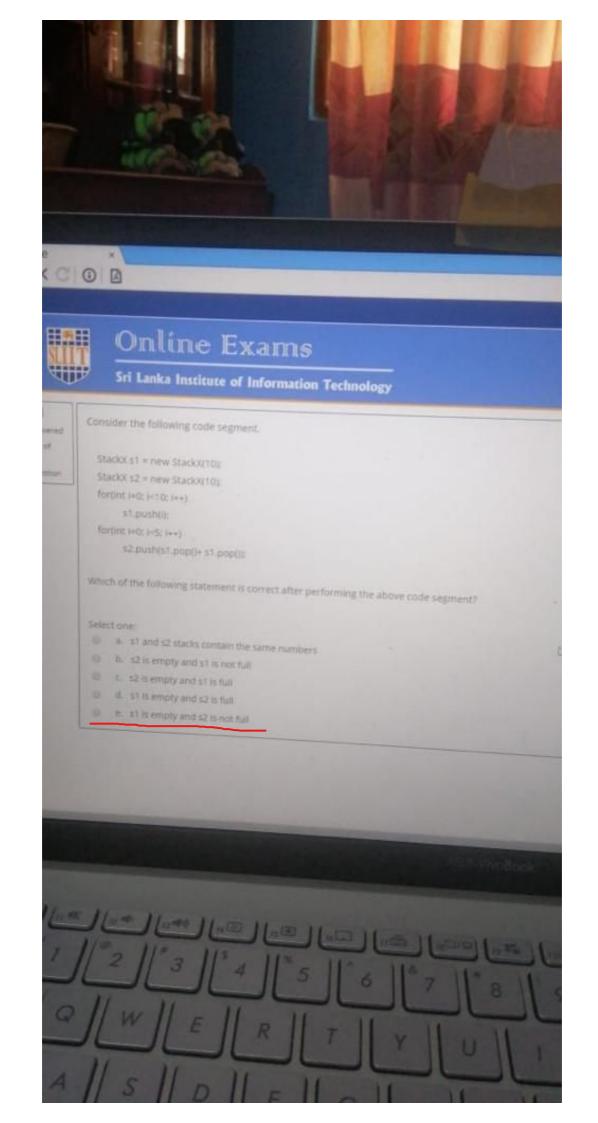
1				5		7
67	55	60	24	38	45	48

A

A new value is added to the heap as the last element (heap size will be incremented by one) without affecting the max heap property.

Which one of the following can be the new value?

- a. 26
 - b. 30
 - é. 10
- d. 36
- #. 50



Find the values of the below array after converting to a max heap

1	2	3	4	5	6	7	8
6	32	38	10	18	20	22	5

- a. 32 18 38 10 6 20 22 5
- b. 38 32 6 10 18 20 22 5
- c. 38 32 22 10 18 20 6 5
- d. 38 32 20 10 18 6 22 5
- e. 5 6 10 18 20 22 32 38



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18

inswered

out of

question

Which of the following is false about Kruskal's algorithm?

Select one:

- a. Edges are selected in increasing order of their weights
- b. It is a greedy algorithm
 - c. It is used to find the Minimum Cost Spanning Tree
 - d. It accepts cycles when finding the Minimum Cost Spanning Tree
 - e. None of the mentioned

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Next page

	MC	Q SEC	CTIO
	1	2	
	8	9	
-	15	16	17
	22	23	24



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Question 14

Not yet answered

Marked out of 2.00

P Rag question

Following are the time complexity of 5 algorithms in Big O notation. Find the correct order when they are arranged from the most efficient algorithm to the least efficient algorithm.

O(N2) O(logN) O(NlogN) O(N) O(N3)

Select one:

- a. O(logN) O(NlogN) O(N) O(N2) O(N3)
- b. O(logN) O(N) O(NlogN) O(N2) O(N3)
- c. O(NlogN) O(logN) O(N) O(N) O(N)
- d. O(NlogN) O(N) O(logN) O(N2) O(N3)
 - e. O(N) O(logN) O(NlogN) O(N2) O(N3)

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MCQ SECTIO



22 23 24

25 | 26 | 27

32 33 34

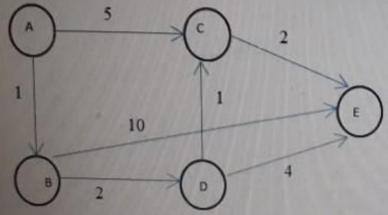
Question 23

Not yet answered

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P Flag question

Consider the below graph and apply the Dijkstra's algorithm to find the shortest path from the source vertex A to C and A to E



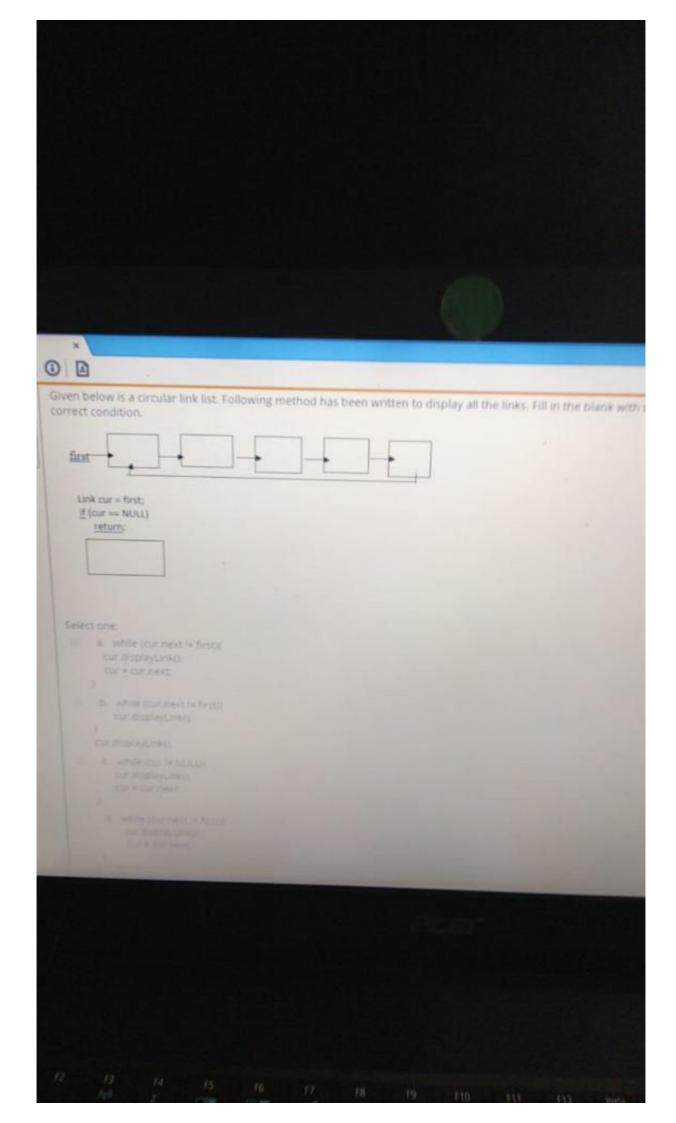
- a. 4 and 6
- b. 5 and 11
 - c. 5 and 7
- d. 4 and 7
 - e. 5 and 6

Consider the below Quick Sort algorithm with errors. Find the line with the error and the correction

QUICKSORT (A,p,r)

- 1 if p < r
- 2 q = PARTITION(A, p, r)
- 3 QUICKSORT (A, p, q)
- 4 QUICKSORT (A, q+1, r)

- a. Line 4 should be corrected as QUICKSORT (A. q. r)
- b. Line 1 should be corrected as if p > r
- c. Line 2 should be corrected as q = PARTITION(A, p, r-1)
- d. Line 3 should be corrected as QUICKSORT (A, p-1, q)
- e. Line 3 should be corrected as QUICKSORT (A, p, q-1)





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Question 31

Not yet answered

Marked out of 3.00

P Flag question

Which one of the following is considered as the min heap property?

- a. A[PARENT(i)] >= A[i]
- b. A[PARENT(i)] <= A[i]</p>
- C. A[PARENT(I)] = = A[I]
- d. A[LEFT_CHILD(I)] < A[I] and A[RIGHT_CHILD(I)] > A[I]
- e. A[i] = A[PARENT(i)]



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Question 14

Not yet answered

Marked out of 2.00

P Flag question

What is the worst case running time of Merge Sort algorithm?

Select one:

- a. O(logn)
- b. O(n)
- c. O(nlogn)
- 0 d. O(n')
- e. O(1)

3



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Question 13

Not yet answered

Marked out of 2.00

P Flag question

Consider the below HEAPSORT algorithm and find out the run time complexity. Run time complexity of BUILD_MAX_HEAP is O(n) and MAX_HEAPIFY is O(log n)

HEAPSORT(A)

- BUILD_MAX_HEAP[A]
- 2. for i = A.length down to 2
- 3. exchange A[1] with A[i]
- 4. A.heap_size = A.heap_size 1;
- 5. MAX_HEAPIFY(A, 1)

- a. O(n) + O(log n)
- 0 b. O(log n)
- (c. O(1)
- d. O(nlog n)
- e. O(n)



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Question 22

Not yet answered

Marked out of 2.00

P Flag question

Which of the following is false about Kruskal's algorithm?

- a. Edges are selected in increasing order of their weights
- b. It is a greedy algorithm
- c. It is used to find the Minimum Cost Spanning Tree
- d. It accepts cycles when finding the Minimum. Cost Spanning Tree
 - e. None of the mentioned



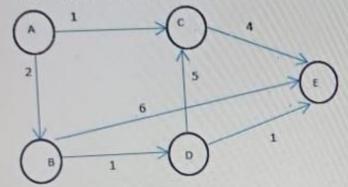
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Question 24
Not yet answered

Marked out of 2.00 .

P Flag question

Consider the below graph and apply the Dijkstra's algorithm to find the shortest path from the source vertex A to vertex E.



Select one:

- o a. 4
- o b. 8
- 0 c. 5
- o d. 7
- e. 3

1

Next page

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MCQ SECTIO

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22 23

MCQ SECTIO

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Question 12

Not yet answered

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```
Consider the below method of a linear queue data structure. What can be the method "XX"?
                                                                                                                                  ≡ Quiz na
public int XX() (
    if (nitems == 0) {
                                                                                                                                 1 2
      System.out.println("Queue is empty"):
      return -99;
     else (
       return quearray[front++]:
                                                                                                                                25 26 27
                                                                                                                               33 34 35
   Select one:
    a peekFronti)
                                                                                                                              38 39
                                                                                                                             40
    e deletel)
```

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39
```

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```
Find the step count of the following pseudo code using RAM model sum =0
```

Answer:



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Using the Rabin Carp algorithm, find the number of spurious and valid hits for to PP-50. Modulo value of pattern is 10.

- a valid hits = 1 spurious hits = 2
 - b. world hits = 0 spurious hits = 0
 - c walld hits = 2 spurious hits = 2
 - 6. wate hits = 0 spurious hits = 2
 - e. valid hits = 2 spurious hits = 0



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et answered

lag question

Find the incorrect statement

- a. Divide and Conquer method is an Algorithm Designing Technique
- b. Quick Sort worst case happens if the array is in ascending order
- c. Kruskal's algorithm is a greedy algorithm
- d. Divide and Conquer method is used in both Merge Sort and Quick Sort algorithms
 - e. Insertion Sort and Quick Sort best case Big-O Notations are same



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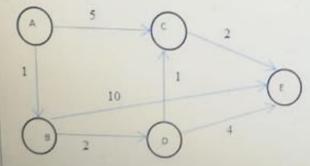
Question 24

Not yet answered

Marked out of 2.00

P Flag question

Consider the below graph and apply the Dijkstra's algorithm to find the shortest path from the source vertex A to C and A to E.



Select one:

a. 5 and 11

b 4 and 6

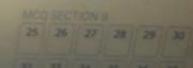
E 4 and 7

a K and

■ Quiz navigation

MCQ SECTION |







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tion

Find the no of steps of the following pseudo code using RAM model i=1 while ($i \le 10$)

print (i) i=i+3

Answer:

Question 35

Not yet answered

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3.00

P Flag question

Consider the following max heap represented in an array

1	2	3	4	5	6	7
67	55	60	24	38	45	48

A new value is added to the heap as the last element (heap size will be incremented by one) without affecting the max heap property.

Which one of the following can be the new value?

Select one:

- @ a. 26
- o b. 30
- o c. 36
- o d. 50
- e. 10

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MCQ SECTION

15 16

2 21 2

MCQ SECTION

32 33 34

SHORT ANSW



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Question 18

Not yet answered Marked out of

Marked out of 2.00

P Flag question

Following are the time complexity in Big O notation of programs written by 5 students to solve the same problem. What is the Big O notation of the most efficient coding?

Select one:

- @ a. O(2")
 - b. O(n³)
- € C. O(n)
- d. O(logn)
- e. O(nlogn)

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MCQ SECTION !





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22	23	24

MCG SECTION

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63	678	100



SHORT-MASW

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Question 36

3.00

Not yet answered Marked out of

₹ Flag question

Find the values of the below array after converting to a max heap

1	2	3	4	5	6	7	8
6	32	38	10	18	20	22	5

- a. 38 32 22 10 18 20 6 5
- 6 b. 38 32 20 10 18 6 22 5
- O c. 38 32 6 10 18 20 22 5
- d. 32 18 38 10 6 20 22 5
- e. 5 6 10 18 20 22 32 38



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Question 22

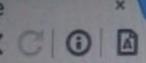
Not yet answered

Marked out of

P Flag question

Which of the following is false about Kruskal's algorithm?

- a. Edges are selected in increasing order of their weights
- o b. It is a greedy algorithm
- C. It is used to find the Minimum Cost Spanning Tree
- d. It accepts cycles when finding the Minimum Cost Spanning Tree
- e. None of the mentioned





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tion

Find the Big O value of the following function

$$f(n) = 2^n + 7n^2 + n + 7$$

- a. O(n²)
- 6 b. 0(2)
- O c. $O(2^n + n^2 + n)$
- o d. O(1)
- @ e. O(n)

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on

Consider the array 'A' given below. If the given partition i.e. after executing PARTITION(A, 1, 8)

1 2 3 4 5 6 7 8

2 17	0	and Charles III	THE PERSON NAMED IN	Contract of the last	_	
1 2	0	90	80	40	30	68
	1 2	1 20	1 20 90	1 20 90 80	1 20 90 80 40	1 20 90 80 40 30

PARTITION(A, p, r)

$$1 \quad x = A[r]$$

$$2i = p - 1$$

3 for
$$j = p \text{ to } r - 1$$

4 if
$$A[j] \leq x$$

exchange A[/] with A[/]

7 exchange A[i + 1] with A[i]

8 return / + 1

Select one

a. Index 7

b. Index 5

c index 6

a d instea



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Question 21

Not yet answered Marked out of 2.00

P Flag question

Consider the following statements regarding the algorithms

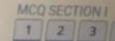
- 1. Insertion sorting algorithm performance is very good when the input size is small
- 2. When the algorithm is recursive then the running time equation also recursive
- 3. When an algorithm has more nested loop then the performance will be increased [3]

Which of the above is/are correct?

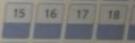
Select one:

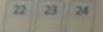
- a. All are correct
 - b. Only 2 and 3
- C CONLY
 - d. Only 1 and 2
 - e. Only 2

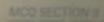
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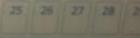














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Question 25

Not yet answered Marked out of 3.00

P Rag question

Insert the following values to a binary search tree and find the successor if node 88 is deleted.

68 . 88 . 90 . 70 . 32 . 38 . 69 . 89 . 92

Select one:

a. 89

b. 68

D C 92

d 69

e. 90

Question 33

3.00

Not yet answered Marked out of

F Flag question

Consider the array 'A' given below. If the given partition algorithm is applied to the array 'A', where would be the value 68? i.e. after executing PARTITION(A. 1, 8)

1 2 3 4 5 6 7 8

55	11	20	90	80	40	30	68
		0.000	11339651	200000	0.000,000	CHESTAN	195550

PARTITION(A, p, r)

- $1 \quad x = A[r]$
- 2 i = p 1
- 3 for j = p to r 1
- 4 If $A[j] \leq x$
- 6 exchange A[i] with A[j]
- 7 exchange A[i + 1] with A[r]
- 8 return i+1

Select one:

- a. Index 6
- 6 b. Index 7
- c. index 8
- d. index 1
- e. index 4

■ Quiz

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MCQ SEC





SHORT



ESSAY O



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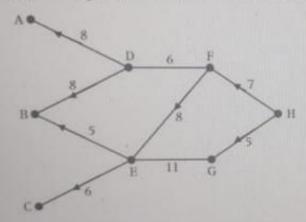
Question 24

Not yet answered

Marked out of 2.00

F Flag question

Apply Dijkstra's algorithm and find out which of the vertices (A. B or C) nearest to H and the distance from H to that vertex?



- a. A. B and C . the distance is 21
- b. Conly, the distance is 22
- C. A only, the distance is 14
- d. A and B only, the distance is 21
 - e. B only, the distance is 20

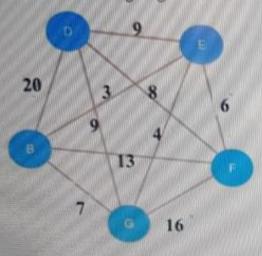
Question 23

Not yet answered

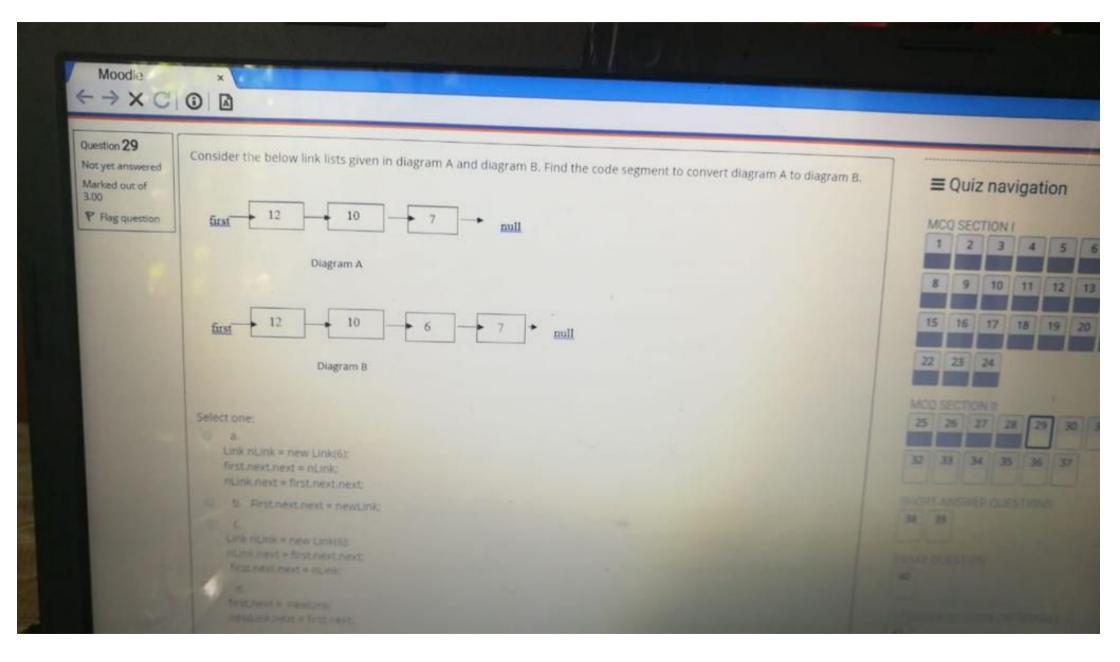
Marked out of 2.00

P Flag question

Which of the following edges form Minimum Cost Spanning Tree using Kruskal's algorithm?



- a. (B E) (E G) (E F), (F D)
- b. (B E) (E G) (E F) (B G) (D F)
- c. (D B). (B + E) . (E G) . (G F)
 - d. (B E) , (E G) , (E F) (B G) , F D)
 - e. (B-E) (E-G) /(E-F) (E-D)





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Question 20

Not yet answered

Marked out of 2.00

P Flag question

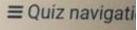
Consider the below string matching algorithm where T - text and P - pattern. Find out the worst case complexity of this algorithm.

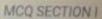
X (T, P)

- 1 n = T.length
- 2 m = P.length
- 3 for s = 0 to n-m
- 4 if P[1..m] = T[s+1..s+m]
- 5 print "Pattern occurs with shift" s

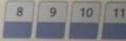
Select one:

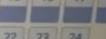
- 0 a. O(1)
 - b. O((n-m+1)m)
 - C O((n-m+1))
 - d. O(nm)
- e. O(n2)















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Danton 34 Not yet answered

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T Fig question.

Consider the below Quick Sort algorithm with errors. Find the line with the error and the correction QUICKSORT (A.p.r)

1 Ifper

- 2 g = PARTITION(A. p. f)
- 3 QUICKSORT (A. p. q)
- 4 OUICKSORT (A. Q+1. f)

Select one:

- a. Line 1 should be corrected as if p > r
- b. Line 3 should be corrected as QUICKSORT (A. p-1, g)
- c Line 3 should be corrected as QUICKSORT (A, p. q-1)
- d. Line 2 should be corrected as q = PARTITION(A, p. r-1)
- e. Line 4 should be corrected as QUICKSORT (A. q. f)

≡ Quiz navigation

MCQ SECTION I





SHORT ANSWER QUESTIONS

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-			32
-	•		

ESSAY QUESTION

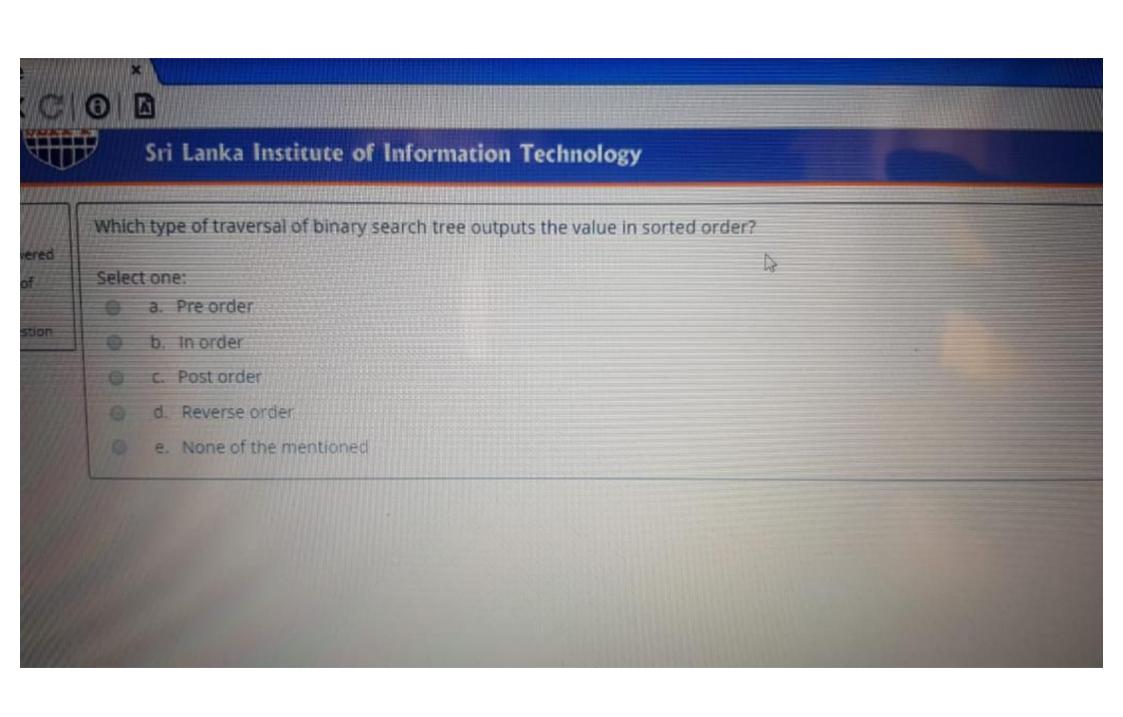


FEEDBACK SECTION (OPTIONAL)

Not yet answered Marked out of 3.00

P Rag question

```
rollowing values are inserted to a binary search tree.
50 60 12 56 102 5
                                                                                                         ≡ Quiz navigation
What is the result you get if you display all the values using the following method.
private void display(Node IRoot)
                                                                                                          MCQ SECTION !!
        if (IRoot != null)
               IRoot.displayNode():
               display(IRoot.leftChild);
               display(IRoot.rightChild);
                                                                                                         MCG SECTION II
                                                                                                         25 26 27 28 29 10
Select one:
                                                                                                         32 33 34 35 36 37
a. 102 60 56 50 12 5
b. 5 12 50 56 60 102
C 50 12 5 60 56 102
d. 50 12 60 5 56 102
e 5 12 56 102 60 50
                                                                                                         40
```





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Question 22

Not yet answered Marked out of

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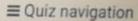
P Flag question

Consider the below statements about insertion sort algorithm.

- 1. Exhibits the worst case when the array is arranged in reverse order
- 2. Worst case performance is O(n*).
- 3. Similar to the way a card player arrange the cards from a card deck

Which of the following is correct?

- a. Only statement 2 is correct
- b. Only statement 1 is correct
- C. Only statement 3 is correct
 - d. All the statements are correct
 - e. Only statement 1 and 2 are correct.



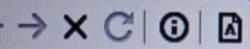






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Online Exams

Sri Lanka Institute of Information Techno

Duestion 1

Not yet answered

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P Flag question

No of elements in a linear queue is always given as,

- a. maxSize 1
- b. maxSize
- C. rear front + 1
- d. rear front
- e. rear + 1



Question 34

Not yet answered

Marked out of 3.00

P Flag question

Consider the below Quick Sort algorithm with errors. Find the line with the error and the correction

QUICKSORT (A.p.r)

1 if p < r

2 q = PARTITION(A, p. r)

3 QUICKSORT (A. p. q)

4 QUICKSORT (A; q+1, r)

Select one:

- a. Line 1 should be corrected as if p > r
- b. Line 4 should be corrected as QUICKSORT (A. q. r)
- c. Line 3 should be corrected as QUICKSORT (A. p. q-1)
- d. Line 3 should be corrected as QUICKSORT (A. p-1, q)
- e. Line 2 should be corrected as q = PARTITION(A, p. r-1)

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ESSAY QUESTION

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Question 33

Not yet answered

Marked out of

P Rag question

Consider the following max heap represented in an array

1	2	3	4	5	6	7	
67	55	60	24	38	45	48]

A new value is added to the heap as the last element (heap size will be incremented by one) without affecting the max heap property.

Which one of the following can be the new value?

- a. 36
- b. 30
- c. 26
- s d. 10
- e. 50





Question 12

Not yet answered

Marked out of 2.00

P Flag question

```
Consider the below method of a linear queue data structure. What can be the method "XX"?
public int XX() {
   If (nltems == 0) {
      System.out.println("Queue is empty");
      return -99:
   else {
      return queArray[front];
Select one:
       a. peekFront()
       b. remove()
      c. delete()
       d. insert()
       e. pop()
```





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Question 3

Notyetanssered

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T Fing question

Find the correct statement regarding "rear = maxsize -1"

Select one:

- . a. It is used to find whether a linear queue is full
- b. It is used to find whether a circular queue is full
- c. It is used to find whether a linear queue is empty
- d. It is used to find whether a circular queue is empty
- e. Above a) and b) both are correct

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MOD SECTIO

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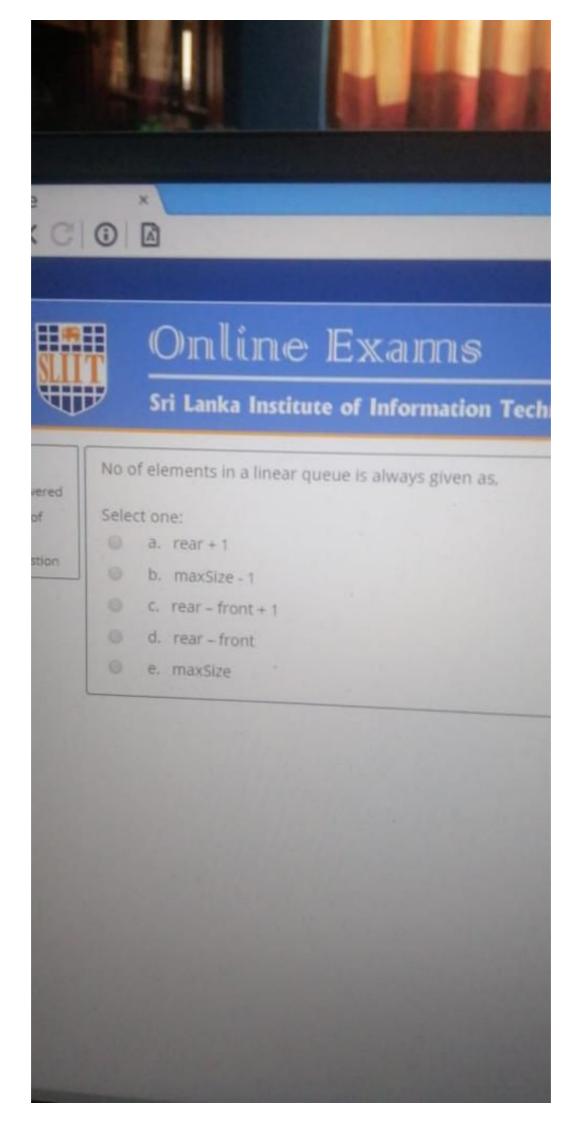
9 10

17 18

MOD SECTION

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SHORT ANS





Sri Lanka Institute of Information Technology

nswered out of

question

A node of a binary search tree is referred as "current". It is given that current.leftChild == NULL and current.rightChild == NULL current is a.

- a. Node with one left child
- b. Node with one right child
- C. Node with two children
- d. Leaf node
- e. None of the mentioned



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answered out of

g question

A stack is filled with values. All the values are popped from the stack and inserted to an empty queue (size is same as the stack). All the numbers are again removed from the queue and pushed back to the stack. Which of the following statement is correct about the stack?

Select one:

- 9
- a. Stack remains the same
- 0
- b. Stack is reversed

d. Stack is empty

- 9
- c. Values cannot be popped from the stack
- 0
- e. None of the mentioned

Next page



Sri Lanka Institute of Information Technology

nswered out of

question

A node of a binary search tree is referred as "current". It is given that current.leftChild == NULL and current.rightChild == NULL current is a.

- a. Node with one left child
- b. Node with one right child
- C. Node with two children
- d. Leaf node
- e. None of the mentioned

Question 21

Not yet answered

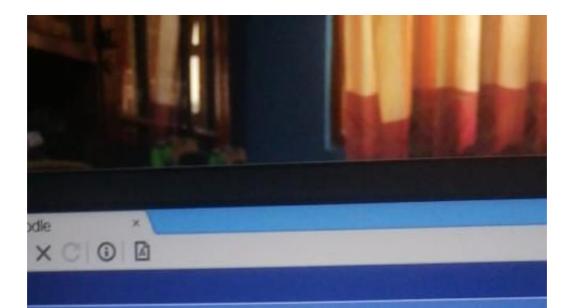
Marked out of

P Rag question

Consider the below string matching algorithm where T – text and P – pattern. Find out the worst case complexity of this algorithm.

- 1 n = T.length
- 2 m = P.length
- 3 for s = 0 to n-m
- 4 If P[1..m] = T[s+1..s+m]
- 5 print "Pattern occurs with shift" s

- a. O((n-m+1)m)
 - b. O(nm)
 - E. O(n2)
- d. O((n-m+1))
 - e. O(1)





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answered out of

question.

Which of the following is correct about the min heap?

- a. Last leaf node has the lowest value
- b. Root has the highest value
- C. Root has the lowest value
- d. Left most node has the lowest value
- e. Right most node has the lowest value

```
Consider the below string matching algorithm where T - text and P - pattern. Find out the worst case complexity of this algorithm.

X (T, P)

1    n = T.length
2    m = P.length
3    for s = 0 to n-m
4    if P[1..m] = T[s+1..s+m]
5     print "Pattern occurs with shift" s
```

Select one:

a. O(1)

b. O(nm)

d. O(n²)

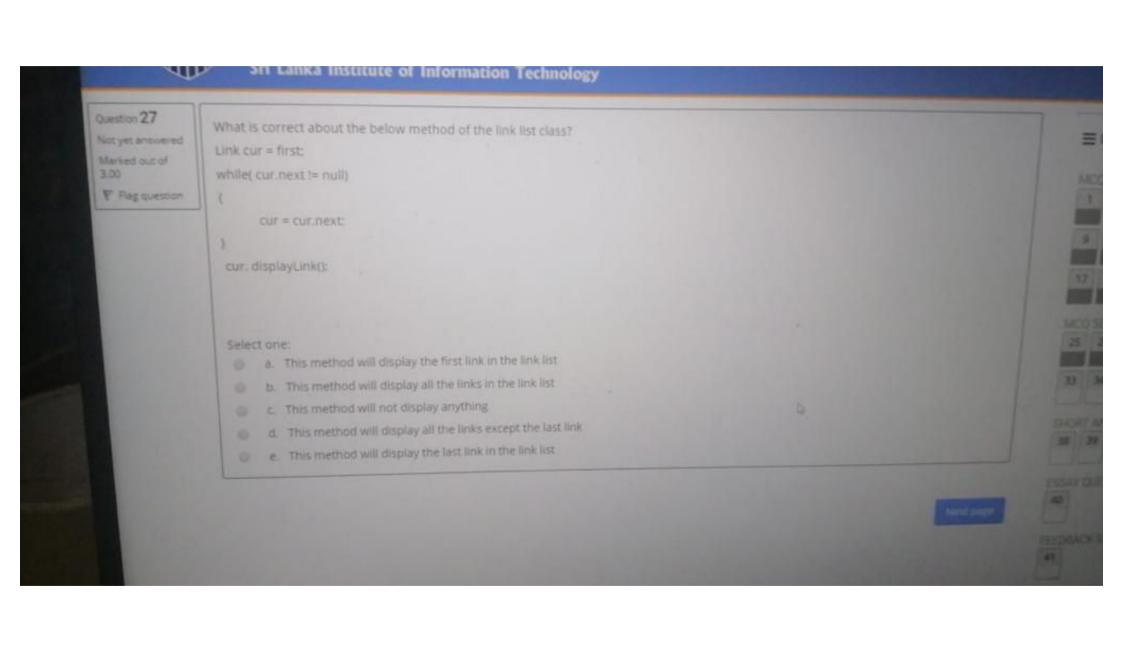
c. O((n-m+1)m)

e. O((n-m+1))



Which of the following analysis method is practically used to analyze an algorithm?

- a. Step count method
- b. Asymptotic notation
- C. RAM Model
- d. Operation count method
- e. Exact analysis



Quantion 30 Not yet answered Marked out of 3.00 P Rag question

```
Following values are inserted to a binary search tree.
50 60 12 56 102 5

What is the result you get if you display all the
```

What is the result you get if you display all the values using the following method. private void display(Node IRoot)

```
if (IRoot != null)

(

IRoot.displayNode():

display(IRoot.leftChild):

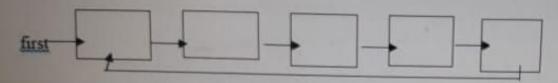
display(IRoot.rightChild):
)
```

- a 102 60 56 50 12 5
- b. 5 12 50 56 60 102
- c. 50 12 5 60 56 102
- d 50 12 60 5 56 102
- e 5 12 56 102 60 50

lot yet answered

Plag question

Given below is a circular link list. Following method has been written to display all the links. Fill in the blank with the correct condition.



```
Link cur = first;

If (cur == NULL)

return;
```

Select one:

- a. while (cur != first)(cur.displayLink(): cur = cur.next;
- b. while (cur.next != first)(cur.displayLink();

Cur displayLinks



tion 10

et answered

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lag question

Which type of traversal of binary search tree outputs the value in sorted order?

- a. Pre order
- b. In order
- a c. Post order
- d. Reverse order
- e. None of the mentioned

36

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Find the incorrect statement

- a. Divide and Conquer method is used in both Merge Sort and Quick Sort algorithms
- b. Quick Sort worst case happens if the array is in ascending order
- c. Kruskal's algorithm is a greedy algorithm
- d. Insertion Sort and Quick Sort best case Big-O Notations are same
- e. Divide and Conquer method is an Algorithm Designing Technique



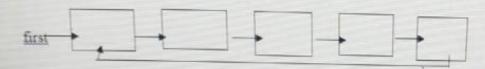
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P Plag question

Given below is a circular link list. Following method has been written to display all the links. Fill in the blank with the correct condition.



Link cur = first; If (cur == NULL) return;

Selectione:

 a. while (cur.next != first)(cur.displayLink(); cur = cur.next;

cur displays (nkm

b white (cur le first) cur displayLinks)

c. while (current in first)

≡ Quiz nav.

MCQ SECTION I

8 9 10

15 16 17

22 23 24

MCQ SECTION III

25 26 27 28

32 33 34 35

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estion 4 is yet answered esked out of

Fig question

In a given link list. "first.next = null". Which one of the following statement is correct?

- O a. Link list is empty
- b. Link list has only one link
- O c. This is a circular link list
- O d. Link list has two links
- e. None of the mentioned





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Question 18

Not yet answered

Marked out of 2.00

P Flag question

Consider the text and the pattern given below. You need to find the given pattern in the text using Naive-String-Matcher algorithm.

Text - CABDAAACABB

Pattern - CAB

Pattern can be found when

- a. shift = 0 and shift = 7
- b. shift = 1 only
- c. shift = 1 and shift = 5
- d. shift = 0 only
- e. shift = 7 only





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Flag question

Which of the following statement about stack is NOT correct?

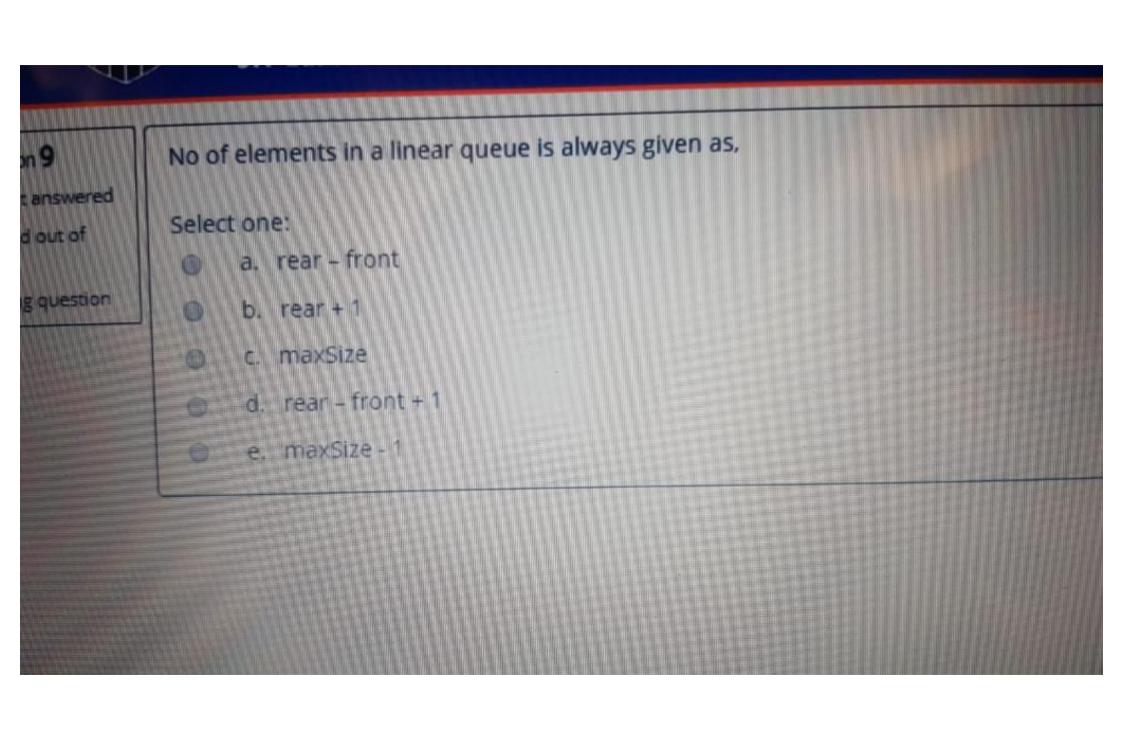
Select one:

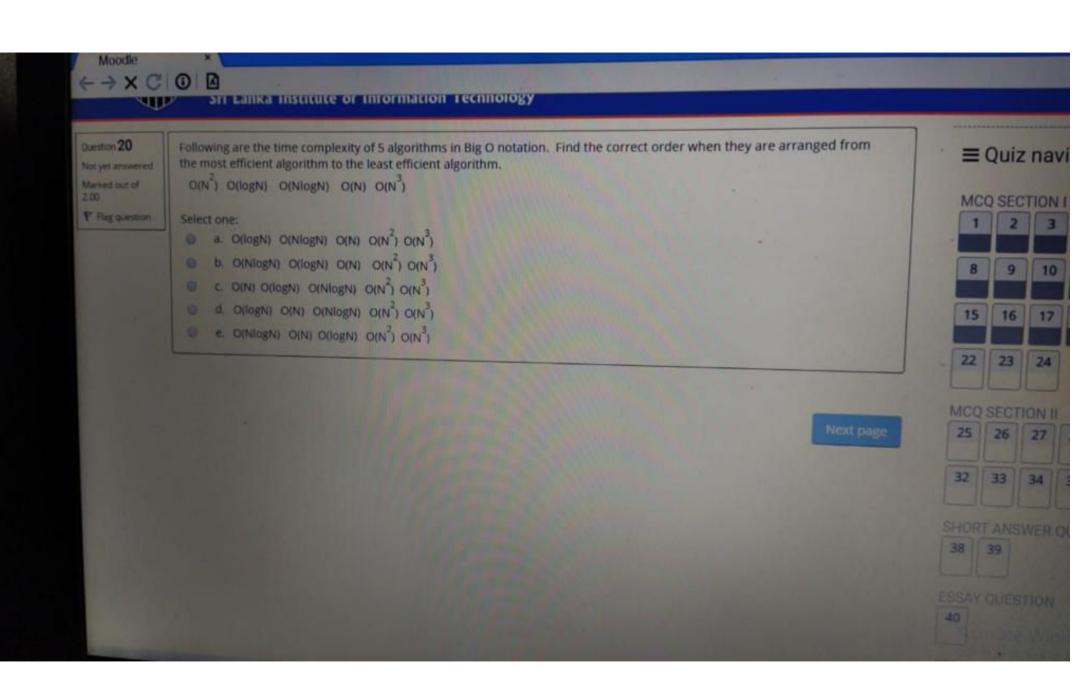
- a. "top" becomes -1 when a stack is empty
- b. Reversing a string is an inherent application of stack
- C. Stacks follow "FIFO"
- d. New elements are always inserted at the "top"
- e. Linked Lists can be used to implement Stacks

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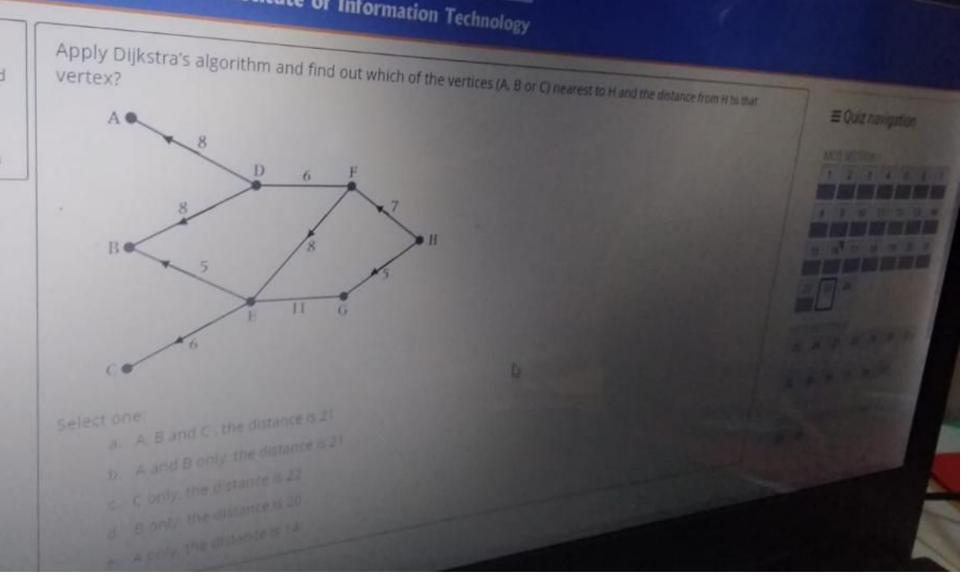


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Flag question







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Question 7

Not yet answered Marked out of

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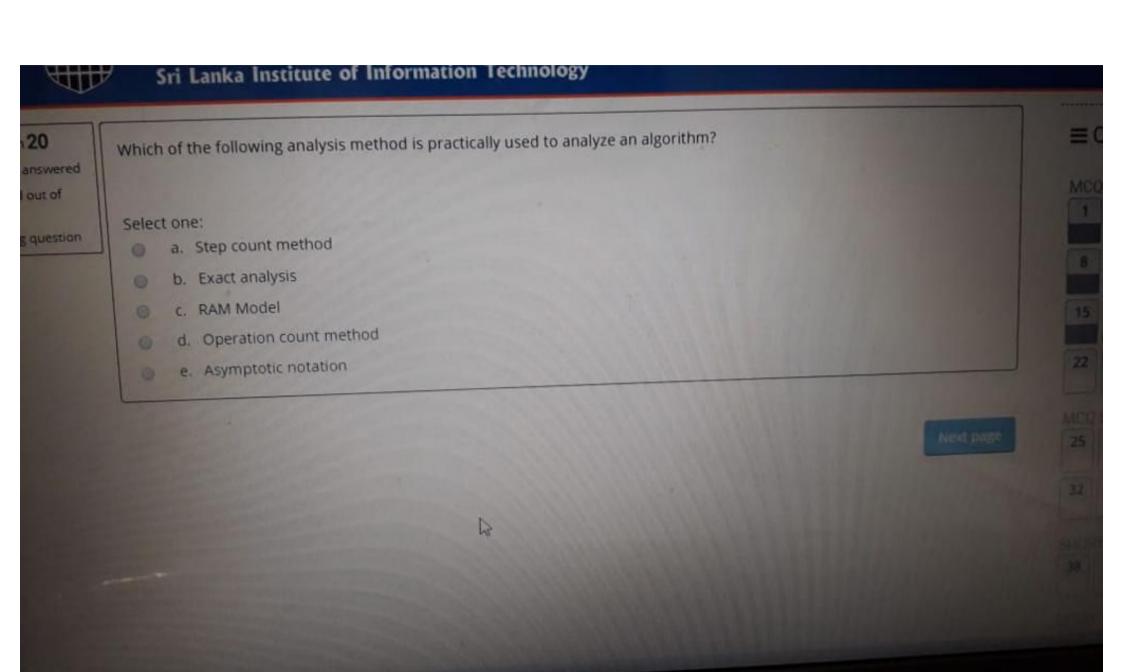
P Flag question

Which of the following statement about stack is NOT correct?

Select one:

- a. "top" becomes -1 when a stack is empty
- b. New elements are always inserted at the "top"
- c. Reversing a string is an inherent application of stack
- d. Stacks follow "FIFO
- e. Linked Lists can be used to implement Stacks

Next page





Same timing complexities for both best case and worst case can be found in

- a. Insertion sort.
- b. merge sort
- c bubble sort
- d. None of the mentioned
- C e quick sort