Data Structure MCQs

1. What will be the minimum number of jumps required to reach the end of the array arr[] = {1,2,0,0,3,6,8,5}?

a) 1

b) 2

c) 3

d) not possible to reach the end

Answer: not possible to reach the end

2. It is not possible to find the minimum number of steps to reach the end of an array in linear time.

a) true

b) false

Answer: false

3. In how many different ways we can reach the end of the array arr[]={1,3,5,8,9}?

a) 1

b) 2

c) 3

d) 4

Answer: 4

4. It is not possible to reach the end of an array if starting element of the array is 0.

a) true

b) false

Answer: true

5. What is the minimum possible time complexity to find the number of steps to reach the end of an array?

a) O(n)

b) O(n2)

c) O(n3/2)

d) O (1)

Answer: O(n)

6. What will be the minimum number of jumps required to reach the end of the array arr[] = {1,3,6,3,6,8,5}?

a) 1

b) 2

c) 3

d) not possible to reach the end

Answer: 3

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7. Consider an implementation of unsorted singly linked list. Suppose it has its representation with a head and tail pointer. Given the representation, which of the following operation can be implemented in O(1) time?

i) Insertion at the front of the linked list

ii) Insertion at the end of the linked list

iii) Deletion of the front node of the linked list

iv) Deletion of the last node of the linked list

(A) I and II

(B) I and III

(C) I, II and III

(D) I, II and IV

Answer: I, II and III

8. Consider an implementation of unsorted singly linked list. Suppose it has its representation with a head pointer only. Given the representation, which of the following operation can be implemented in O(1) time?

i) Insertion at the front of the linked list

ii) Insertion at the end of the linked list

iii) Deletion of the front node of the linked list

iv) Deletion of the last node of the linked list

(A) I and II

(B) I and III

(C) I, II and III

(D) I, II and IV

Answer: I and III

9. Consider an implementation of unsorted doubly linked list. Suppose it has its representation with a head pointer and tail pointer. Given the representation, which of the following operation can be implemented in O(1) time?