Queue Data Structure

Due 30 Jan at 23:59 **Points** 10 **Questions** 10

Available 29 Jan at 11:30 - 30 Jan at 23:59 1 day

Time limit None

Attempt history

	Attempt	Time	Score
LATEST	Attempt 1	10 minutes	6 out of 10

Score for this quiz: **6** out of 10 Submitted 29 Jan at 14:56 This attempt took 10 minutes.

Question 1	1 / 1 pts
Adding an element in the queue is known as	
Enqueue	
O Dequeue	
O push	
Орор	
	Adding an element in the queue is known as Enqueue Dequeue push

	Question 2	1 / 1 pts
Correct!	Deleting an element from a queue is called as	
	Dequeue	
	Орор	
	○ Enqueue	

push

	Question 3	1 / 1 pts
	Queue is an abstract Data Structure	
Correct!	True	
	O False	

	Question 4	1 / 1 pts		
	Given a queue, initially empty. The following operations were performed on the queue			
	1. Enqueue(4) 2. Enqueue(10) 3. Enqueue(18) 4. Enqueue(25) 5. Dequeue() 6. Enqueue(100) 7. Dequeue() 8. Dequeue()			
Correct!	4,10,18			
	O 100,25,18			
	O 4,18,25			
	O None of These			

Question 5 1/1 pts • Given the following code snippet

Correct!

rear == -1

```
Queue Data Structure: FT-WEB-15
function dequeue(){
    if (______){
   print ("Underflow")
    ans = arr[front];
    front++;
    print (ans)
• What should be the condition inside the if statement, for this dequeue
  operation to work correctly
   front == rear
   front == -1
   front == 0
```

```
0 / 1 pts
               Question 6

    Given the following code snippet

                 function enqueue(data){
                    if (_____){
                        print ("Overflow")
                    arr[rear] = data;
                    rear++;
                • What should be the condition inside the if statement, for this enqueue
                   operation to work correctly
orrect answer
                   rear == size
                    rear == size - 1
'ou Answered
                    rear == front
                   front == size
```

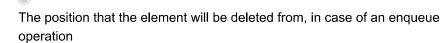
0 / 1 pts **Question 7**

In the implementation of queue, with the help of an array, what does the rear pointer points to

The position at which the new element will be added, in case of an enqueue operation

'ou Answered

orrect answer



Both the above

None of the above

Question 8 0 / 1 pts

```
function enqueue(data){
   if (rear == size){
     print ("overflow")
   }
   arr[rear] = data;
   rear++
}
```

• Given the above implementation of the Enqueue operation, what is the time complexity of the enqueue operation

orrect answer

O(1)

O(N)

'ou Answered

O(logN)

None of the above

Question 9

0 / 1 pts

```
function dequeue(){
    if (rear == front){
        print ("underflow")
    }
    ans = arr[front]
    front++;
    print (ans)
}

• Given the above implementation of the Dequeue operation, what is the time complexity of the enqueue operation

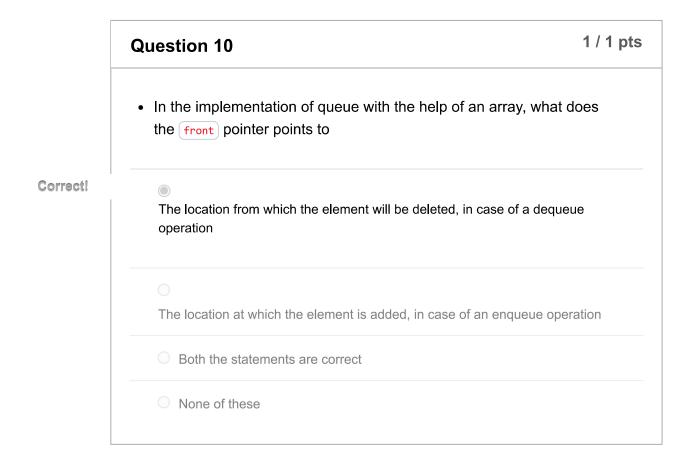
orrect answer

O(1)

O(N)

O(logN)

None of the above
```



Quiz score: 6 out of 10