← Prev Question Next Question →

0 votes

56.0k views
asked Jul 29, 2019 in Computer by Satkriti (69.7k points)

Suppose a queue is maintained by a circular array QUEUE with N = 12 memory cells. Find the number of elements in QUEUE if

(i) Front = 4, Rear =8.

(ii) Front = 10, Rear = 3.

(iii) Front = 5, Rear = 6 and then two elements are deleted.

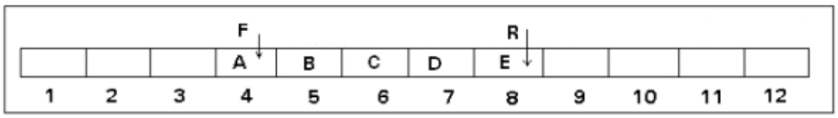
data structures

Share It On

+1 vote

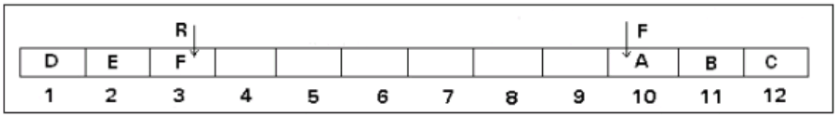
answered Jul 29, 2019 by Ritika (69.2k points)
selected Jul 30, 2019 by faiz

N=12
(i) Front=4, Rear=8
No of elements = 8-4+1 = 5

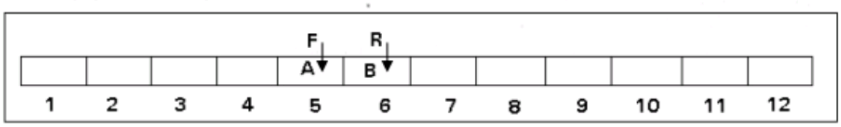


(ii)Front = 10, Rear = 3

No of elements = 6



(iii) Front = 5, Rear = 6



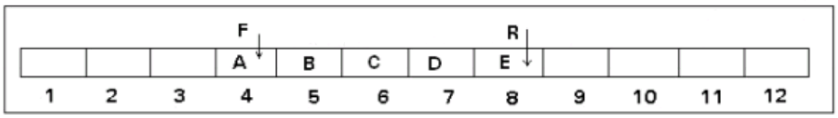
After deletion of two elements in the queue = o

comment

+1 vote

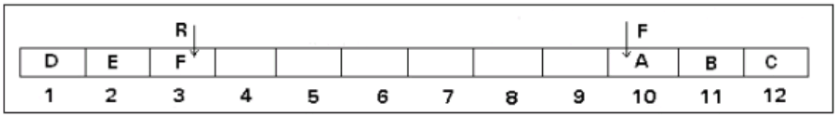
answered Jul 29, 2019 by Ritika (69.2k points)
selected Jul 30, 2019 by faiz

N=12
(i) Front=4, Rear=8
No of elements = 8-4+1 = 5



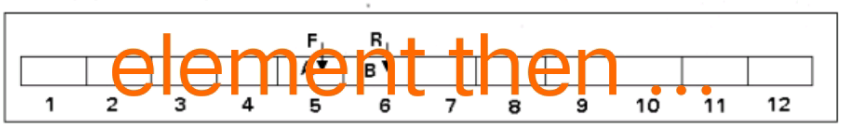
(ii)Front = 10, Rear = 3

No of elements = 6



if rear is a last element then ... Rear-front+1

(iii) Front = 5, Rear = 6



After deletion of two elements in the queue = 0

comment

Use app

← Prev Question

Next Question →