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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

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

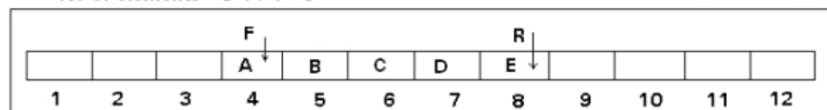
selected Jul 30, 2019 by faiz



N=12

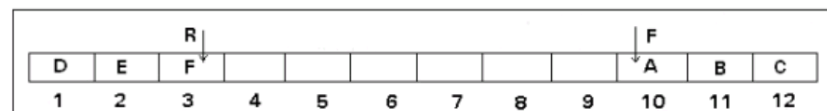
(i) Front=4, Rear=8

No of elements = $8 - 4 + 1 = 5$

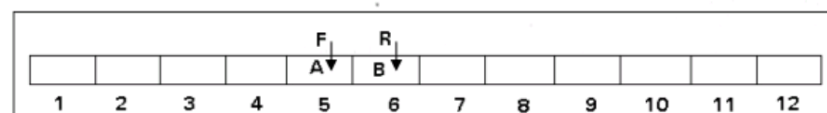


(ii) Front = 10, Rear = 3

No of elements = 6



(iii) Front = 5, Rear = 6



After deletion of two elements in the queue

= 0



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

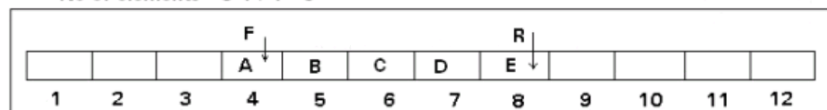
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N=12

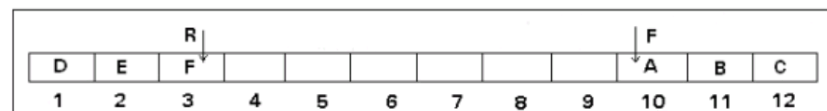
(i) Front=4, Rear=8

No of elements = $8 - 4 + 1 = 5$



(ii) Front = 10, Rear = 3

No of elements = 6



(iii) Front = 5, Rear = 6



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

After deletion of two elements in the queue

= 0



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