

Algorithm for inserting an element into a Queue

Insert(queue,Front,Rear)

Step 1:[check for Queue overflow]

 If $\text{rear} = \text{maxsize} - 1$, then print overflow and exit

Step2:[increase rear by 1]

 Set $\text{rear} = \text{rear} + 1$

Step 3:[insert item]

 Set $\text{queue}[\text{rear}] = \text{item}$

Step 4:Exit

Algorithm for deleting an element from a Queue

Insert(queue,Front,Rear)

Step 1:[check for underflow]

 If $\text{front} < 0$, or $\text{front} > \text{rear}$ then print underflow and exit

Step2:[assign element to item]

 Set $\text{item} = \text{queue}[\text{front}]$

Step 3:[delete item]

 Set $\text{front} = \text{front} + 1$

Step 4:Exit