

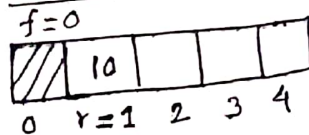
Priority Queue

It is an abstract data type that behaves similarly to the normal queue except that each element has some priority, i.e., the element with the highest priority would come first in a priority queue. The priority of the elements in a priority queue will determine the order in which elements are removed from the priority queue.

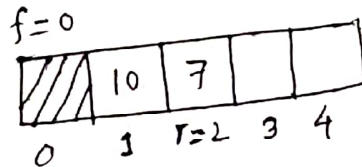
Queue Operation

Insert (10)

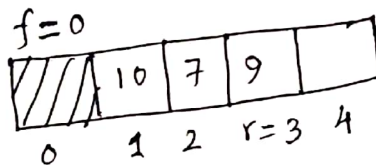
NormQueue



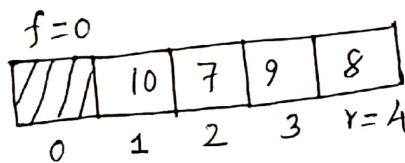
Insert (7)



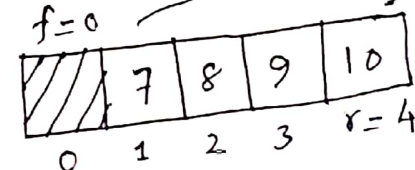
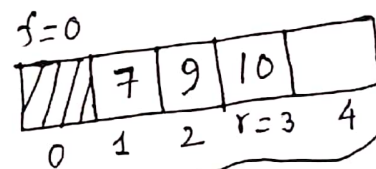
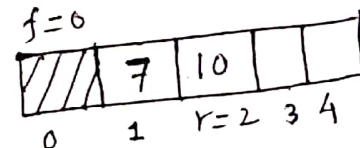
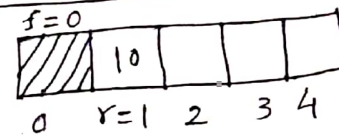
Insert (9)



Insert (8)



PriorQueue

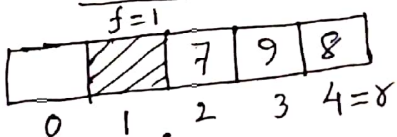


highest priority
lowest priority

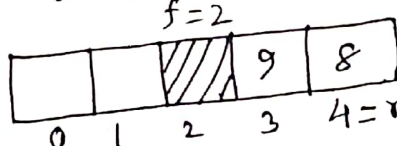
Queue Operation

Delete()

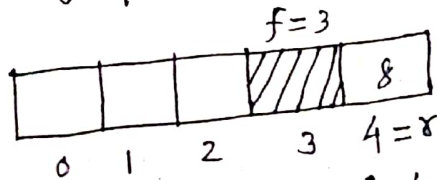
NormQueue



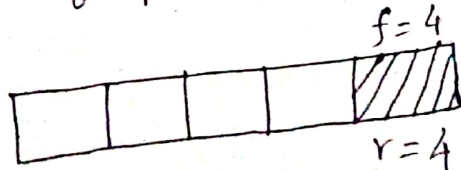
Delete()



Delete()



Delete()



Data sequence

10

10, 7

10, 7, 9

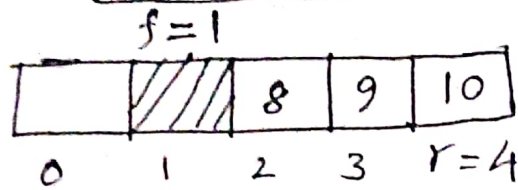
10, 7, 9, 8

Queue Operation

Prior Queue

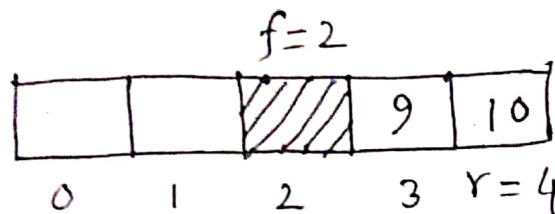
Data Sequence

Delete()



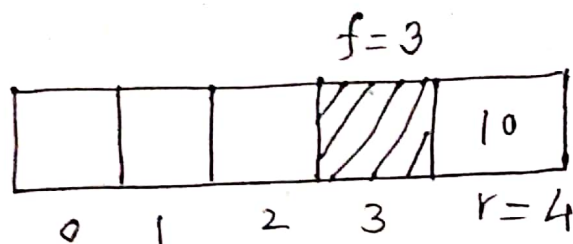
7

Delete()



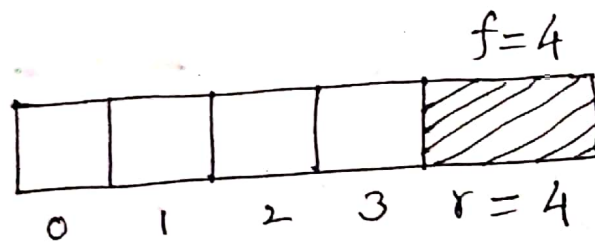
7, 8

Delete()



7, 8, 9

Delete()



7, 8, 9, 10