Lab 9

1. Implement a priority queue. You can use either of the two methods:
   1. Method1: Enqueue in O(n) and dequeue in O(1)
   2. Method2: Enqueue in O(1) and dequeue in O(n)

In which cases would you prefer method 1 and in which would you prefer method 2?

1. Implement a circular queue using an array. Assume your own initialization of front and rear. Your program should handle all test cases.
2. Modify your program above to accommodate the following initializations:
   1. F = -1 and R = -1
   2. F = 0 and R = -1
   3. F = 0 and R = n-1
3. Implement a circular queue using a linked list.