CSE 222 Midterm Examination

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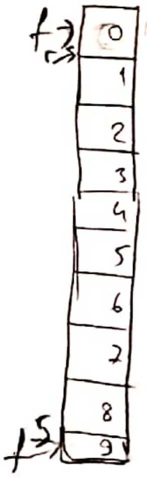
I hereby pledge on my honor that I will strictly adhere to academic integrity codes and the work done on this examination is solely my own and I will not receive/give any help from/to anybody or source during this examination.

```
class MyDeque implements Deque <E> {
  private ArrayList<E> myList = null;
  private int default_size = 10;
  private int capacity;
  private int front;
  private int rear;
  Private int size;
  public MyDeque () {
      myList = new ArrayList<E>(default_size);
      capacity = default_size;
      front = 0;
      rear = myList.size()=1;
      size =0;
  }
  public boolean offerFirst (E item) {
        front = ((front-1) + capacity) %capacity;   if (defaut_size==size){
                                                      S.out.print('Full');
                                                      return false;
                                                    }
        myList. set (index, item);
        size ++;
        return true;
  }
  public boolean offerLast (E item)                if (default_size==size) {
      rear = (rear +1)% capacity                         println("Full");
                                                         return false;
                                                    }
      myList. set (rear, item);
      size ++;
      return true;
  }
```

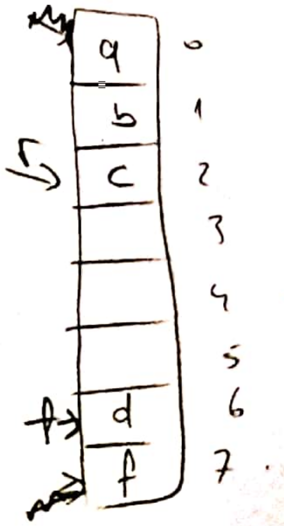


```
public E poll First() {
    if( mylist== null // mylist.size()==0)
        return null;
    E tmp = myList.get(front);
    front = (front +1) % capacity;

    return tmp;
}

public E pool Last() {
    if (myList == null || myList.size() == 0)
        return null;
    E tmp = mylist.get(rear);
    rear =((rear -1);
    if (rear <0) rear += capacity;
    return tmp;
}

} //end of MyDeque
```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