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Daris Ayıldız 1901042252 CSE 222 Middern Examination
I hereby pledge on my honor that I will strictly othere to B. Ayyulalle concordance integrity codes and the work done on this examination is solely my auto
my own and I will not receive give any help from Ho onybody or some
dring this Examination.
import Joura- util. Amylist
class My Deque < E> implements Deque LE>
  private Array List ( I > orr; // I am using circular array
   private int cop;
   private int heard;
                            int INITIAL -CAP = 8;
   private mt toil;
private static final
   public My Deque () }
      +415. cop= INITIAL-CAP
     this longth-0,
     turs head = 0;
                           ArroyList (E> (this. cap);
     this .tail = 0;
     this. orr = new
   public boolean affer First (E Hem) {
      if (this. length ==+his. cap)
        this roullocate();
      int madex = (head-1) % this . copin;
      this.orr.set(index, rtem);
      this head = index;
      this length ++;
     return the;
```

Boris Ayyıldız 1901042252 CSF 222 Midterm Examination public bodeon offerLost (Fitem) { if (this length == this cop) this reallocate (); int index = (this.fail+1) %othis cap; this.or.set (Mdex, item); +uis. toila Index; this length ++; return true; public E pollfirst () throws Exception & if (this length == 0) throw new Exception() E vals this arriget (this hood); this word = (this heard + 2) is this cap; this length -- ; return val; public E pollLast() throws Exception & if (this.length == 0) throw new Exception () E val = this. or get (tais teril); this, tail = (this, tail-1) %+45-cap; this. length --, return val; private void reallocate () } ArrayList (E) temp= new ArrayList(E) (+his-cap+2); int index = this head; int tempcanter = 0;

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Barris Agyildra 1901047752 (SF 272 Wildern Examination B. Aggillian While (index -! = this.toril)

temp. set (tempCanter ++, this. arr. get (index));

index = (index +1) % this. cap;

this head = 0;

this head = 0;

this cap *=2;

this cap *=2;
```