CSE12 - Lecture 24 - C00

Monday, November 21, 2022 11:00 AM

PAS hard deadline => today

PAS Late / Resubait => Tuesday

PAT/PAS Late / Resubait => Friday - F Wee 610

```
Complete expandCapacity for the Circular ArrayList
                                                                                                                   Start
public class CAList<E> implements List<E> {
 E[] contents;
int size;
                                                 @SuppressWarnings("unchecked")
                                                 private void expandCapacity() {
 int start;
                                                   int currentCapacity = this.contents.length;
                                                   if(this.size < currentCapacity) { return; }</pre>
 @SuppressWarnings("unchecked")
 public CAList(int capacity) {
  this.contents = (E[]) (new Object[capacity]);
                                                   11 save old memory
                                                   ET2 duArroy = this contents;
   this.size = 0;
   this.start = 0;
                                                   1/create New array
 private int indexFor(int index) (
  EII NOW Array = (EII)
New Object (2+ court Great);
                                                                                                                                                              wrap
                                                  Witerate though of army
 public E get(int index) {
                                                   for list i=0, i < this. size; it+) {
   // ASSUME index is in bounds
int toLookup = this.indexFor(index);
                                                                                                                                                              No-wrap
   return this.contents[toLookup];
                                                          11 New Array [i] = oldA roay [i];
 public void prepend(E value) {
  expandCapacity();
                                                          New Array [i] = dula roy [this index For (i)];
 this.size += 1;
this.start -= 1;
if (this.start == -1) {
O/1 this.start = this.contents.length - 1;
                                                    11 copy contents into oris field
 this.contents[this.start] = value;
                                                      this contents = New A roy;
System.out.println(a);
a.prepend(30);
                                                      Moset start
   System.out.println(a);
a.add(40);
System.out.println(a);
   a.prepend(20);
                                                        start = 0;
   System.out.println(a);
   a.add(70);
   System.out.println(a);
```

What is the run-time of prepend()?

Worst Case (1) + Q(v) = Q(v)

Best Case Q(1)

Average Case Q(1) per all

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How would implement remove on a Circular ArrayList?

In the property of th