L3 SUMMARY

1) Brief review of stacks and queues, and their implementation using arrays and lists
2) A third linear ADT: double-ended queue (deque)
3) Data structure design problem: a stack with an additional operation: min()
   - solved by having an additional stack for the minimum items...
   - extend to support both min and max?
   - extend to support min, 2nd-smallest, ..., kth-smallest?
   - what about for queues?
4) Data structure design problem: find the tallest person in a class-room
   - when operations are enter, leave, and tallest
   - when no-one may leave...
5) Data structure design problem: priority queues that support the operations insert, min, and deleteMin
6) The Comparable Interface in Java: parsing the sentence
   public class MinStack<C extends Comparable<? super C>>{

```java
public class MinStack<C extends Comparable<? super C>>{
```