CSE143 Section #4 Cheat Sheet

Queues should be constructed using the Queue<E> interface and the LinkedList<E> implementation:

```
Queue<String> q = new LinkedList<>();
```

Stacks should be constructed using the Stack<E> class (there is no interface):

```
Stack<String> s = new Stack<>();
```

For Stack<E>, you are limited to the following operations (no iterator or Foreach loop):

```
public void push(E value)  // push given value onto top of the stack
public E pop()             // removes and returns the top of the stack
public boolean isEmpty()   // returns whether or not stack is empty
public int size()          // returns number of elements in the stack
```

For Queue<E> you are limited to the following operations (no iterator or Foreach loop):

```
public void add(E value)  // inserts given value at the end of the queue
public E remove()         // removes and returns the front of the queue
public boolean isEmpty()  // returns whether or not queue is empty
public int size()         // returns number of elements in the queue
```