Queue Interface

```
Assignment 1
import java.util.ArrayDeque; import
java.util.Deque; import
java.util.Iterator;
class Tester6 {
  public static Deque<Character> updateStack(Deque<Character> inputStack) {
    // Create a deque to hold the bottom three elements temporarily
    Deque<Character> bottomThree = new ArrayDeque<>();
    // Move the elements from the bottom to the temporary deque for (int i = 0;
   i < 3; i++) {
      // Move elements from inputStack to bottomThree
      bottomThree.addFirst(inputStack.removeLast());
    }
    // Add the elements from bottomThree back to the top of inputStack while
    (!bottomThree.isEmpty()) {
      inputStack.push(bottomThree.removeFirst());
    return inputStack;
```

```
public static void main(String[] args) {
  Deque<Character> inputStack = new ArrayDeque<Character>();
  inputStack.push('E');
  inputStack.push('D');
  inputStack.push('C');
 inputStack.push('B');
 inputStack.push('A');
  Deque<Character> resultStack = updateStack(inputStack);
  System.out.println("The alphabets in updated stack are:");
  for(Character alphabet: resultStack) {
    System.out.println(alphabet);
```

```
The alphabets in updated stack are:
E
D
C
A
B
```