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);
   }
 }
C:\Users\Sarvesh\OneDrive\Desktop>java Tester6
The alphabets in updated stack are:
D
C
A
B
```

}