**Stack**

package com;  
  
import java.sql.SQLOutput;  
  
public class stack {  
 static final int *MAX* = 1000;  
 static int *top* = 0;  
 static int[] *st* = new int[*MAX*];  
  
 static void push(int a){  
 if(*top* > *MAX*){  
 System.*out*.println("Stack Overflow");  
 }  
 else{  
 *st*[*top*++] = a;  
 }  
  
 }  
  
 static void pop(){  
 if(*top* < 0){  
 System.*out*.println("Stack Underflow");  
 }  
 int a = *st*[--*top*];  
 System.*out*.println("Element is " + a);  
 }  
  
 public static void main(String[] args) {  
 stack s = new stack();  
 stack s2 = new stack();  
  
 s.*push*(10);  
 s.*push*(20);  
 s.*push*(30);  
 s2.*push*(40);  
 s2.*push*(50);  
 for(int i=0; i<*top*; ++i)  
 System.*out*.println(*st*[i]);  
 s.*pop*();  
 s.*pop*();  
 for(int i=0; i<*top*; ++i)  
 System.*out*.println(*st*[i]);  
 }  
}

**Queue**

package com.company;  
  
public class CircularQueue {  
  
 static final int *MAX* = 10;  
 int[] arr = new int[*MAX*];  
 int front;  
 int rear;  
  
 CircularQueue(){  
 this.front = 0;  
 this.rear = 0;  
 }  
  
 public void insert(int x){  
  
 if((front == 0 && rear == *MAX*) || (rear == front - 1)){  
 System.*out*.println("Queue is full");  
 }  
 else{  
 arr[rear] = x;  
 rear = (rear + 1) % *MAX*;  
 }  
  
 }  
  
 public int remove(){  
 if(front == rear + 1){  
 System.*out*.println("Queue is Empty");  
 return -1;  
 }  
 else{  
 int x = arr[front];  
 front = (front + 1) % *MAX*;  
 return x;  
 }  
  
 }  
  
 public void print(){  
 int x = front;  
  
 while(x != rear){  
 System.*out*.print(arr[x] + " -> ");  
 x++;  
 }  
  
 }  
  
 public static void main(String[] args) {  
 CircularQueue cq = new CircularQueue();  
  
 cq.insert(1);  
 cq.insert(2);  
 cq.insert(3);  
 cq.insert(4);  
 cq.insert(5);  
 cq.insert(6);  
 cq.insert(7);  
 cq.insert(8);  
 cq.insert(9);  
 cq.insert(10);  
  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
 cq.remove();  
  
  
 cq.print();  
 }  
  
}