First index of element

```java
import java.util.*;
class Solution {

    public static void main(String args[]) {

        // Write code here
        Scanner user_input = new Scanner(System.in);
        int n = user_input.nextInt();
        int[] arr = new int[n];
        for(int i=0; i<n; i++)
        {
            arr[i] = user_input.nextInt();
        }
        int x = user_input.nextInt();
        int check = 0;
        for(int i=0; i<n; i++)
        {
            if(arr[i]==x)
            {
                n = i;
                check++;
            }
        }
        if(check == 1)
        System.out.println(n);
        else
        System.out.println(-1);

    }
}
```

Last index of element

```java
import java.util.* ;
import java.io.*;
class Solution {

    public static void main(String args[]) {

        // Write code here
```

```
        Scanner user_input = new Scanner(System.in);
        int N = user_input.nextInt();
        int[] arr = new int[N];
        for(int i=0; i<N; i++)
        {
            arr[i] = user_input.nextInt();
        }
        int n = user_input.nextInt();
        int count = -1;
        for(int i=0; i<N; i++)
        {
            if(arr[i]==n)
            count = i;
        }
        if(count==-1)
        System.out.println(-1);
        else
        System.out.println(count);
    }
}
```

Reverse The Array

```
import java.util.* ;
import java.io.*;
import java.util.ArrayList;

public class Solution
{
    public static void reverseArray(ArrayList<Integer> arr, int m)
    {
        // Write your code here.
        int s = m+1;
        int temp;
        int e = arr.length;
        while(s<=e)
        {
            temp = arr[s];
            arr[s] = arr[e];
            arr[e] = temp;
            s++;
            e--;
        }
```

```
    }
}
```

Rotate array

```
import java.util.* ;
import java.io.*;
class Solution {

    public static void main(String args[]) {

        // Write code here
        Scanner user_input = new Scanner(System.in);
        int N = user_input.nextInt();
        int[] arr = new int[N];
        for(int i=0; i<N; i++)
        {
            arr[i] = user_input.nextInt();
        }
        int x = user_input.nextInt();
        if(x>0)
        {
            for(int i=0; i<x; i++)
            {
            int temp = arr[0];
            for(int j=1; j<N; j++)
            {
                arr[j-1] = arr[j];
            }
            arr[N-1] = temp;
            }
        }
        for(int i=0; i<N; i++)
        {
            System.out.print(arr[i] + " ");
        }
    }
}
```

Sort 0 1 2

```
import java.util.* ;
```

```java
import java.io.*;
public class Solution
{
    public static void sort012(int[] arr)
    {
        //Write your code here
        int noOfZero = 0;

        int noOfOne = 0;

        int noOfTwo = 0;

        for(int i = 0; i < arr.length; i++){

            if(arr[i] == 0)

                noOfZero++;

            else if(arr[i] == 1)

                noOfOne++;

            else

                noOfTwo++;

        }

        for (int i = 0; i < noOfZero; i++) {

            arr[i] = 0;

        }

        for (int i = noOfZero; i < noOfOne + noOfZero; i++) {

            arr[i] = 1;

        }

        for (int i = noOfOne + noOfZero; i < noOfOne + noOfZero +
noOfTwo; i++) {
```

```
            arr[i] = 2;

        }
    }
}
```

Kth Smallest and Largest Element of Array

```
import java.util.ArrayList;
import java.util.Collection;
import java.util.Collections;

public class Solution {
    public static ArrayList<Integer> kthSmallLarge(ArrayList<Integer>
arr, int n, int k) {
        //Write your code here
        ArrayList<Integer>list = new ArrayList<>();
        Collections.sort(arr);
        list.add(arr.get(k-1));
        list.add(arr.get(arr.size()-k));
        return list;
    }
}
```