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import java.util.*;

public class Day4 {

    static Scanner sc = new Scanner(System.in);

    public static void main(String[] args) {
        // TODO Auto-generated method stub

        int[] nums = {19, -13, 15, -12, -18, -16, 1, 3};

        Set1_Q1(nums);

        Set1_Q2();

        Set2_Q1();

        Set2_Q2();

    }

    public static void Set1_Q1(int[] nums) {
        int l = 0;

        int r = nums.length-1;

        while(l<r) {
            if(nums[l]<0) {

                l++;

            }

            else if(nums[r]>0) {

                r--;

            }

            else {

                int temp = nums[l];

                nums[l] = nums[r];

                nums[r] = temp;

            }

        }

    }

}
```

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for (int i : nums) {
    System.out.print(i+" ");
}
System.out.println();
for(int i = 0 ; i<nums.length ; i++) {
    for(int j = 0 ; j < nums.length ; j++) {
        if(nums[i]<nums[j]) {
            int temp = nums[i];
            nums[i] = nums[j];
            nums[j] = temp;
        }
    }
    for (int i : nums) {
        System.out.print(i+" ");
    }
}

public static void Set1_Q2() {
    int[] nums = new int[5];
    boolean flag = false;
    for (int i = 0; i < nums.length; i++) {
        System.out.print("Enter "+(i+1)+" number: ");
        nums[i] = sc.nextInt();
    }
    System.out.print("Enter number to find: ");
    int key = sc.nextInt();
    int j;
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for (j = 0; j < nums.length; j++) {

    if(nums[j]==key) {

        flag = true;

        break;

    }

}

if(flag) {

    System.out.println("Element Found at "+j+" position in array");

}

else {

    System.out.println("Element Not Found");

}

}

public static void Set2_Q1() {

    int[] nums = new int[5];

    boolean flag = false;

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

        System.out.print("Enter "+(i+1)+" number: ");

        nums[i] = sc.nextInt();

    }

    System.out.print("Enter number to find: ");

    int key = sc.nextInt();

    int l = 0;

    int r = nums.length-1;

    int mid = -1;

    while(l<=r) {

        mid = (l+r)/2;

        if(key<nums[mid]) {

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        r = mid - 1;

    }

    else if(key>nums[mid]) {

        l = mid + 1;

    }

    else {

        flag=true;

        break;

    }

}

if(flag) {

    System.out.println("Element Found at "+mid+" position in array");

}

else {

    System.out.println("Element Not Found");

}

}

public static void Set2_Q2(){

    int[] nums = new int[10];

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

        System.out.print("Enter "+(i+1)+" number: ");

        nums[i] = sc.nextInt();

    }

    int l = 0;

    int r = nums.length-1;

    while(l<r) {

        if(nums[l]%2==0) {

            l++;

        }
    }
}

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    }

    else if(nums[r]%2!=0) {

        r--;

    }

    else {

        int temp = nums[l];

        nums[l] = nums[r];

        nums[r] = temp;

    }

}

for (int i : nums) {

    System.out.print(i+" ");

}

System.out.println();

}

}
```