

Set 02

Ques 01

```
package ques01;

import java.util.Scanner;

public class ques01 {

    public static void main(String[] args) {

        System.out.println("Enter 10 numbers:");
        Scanner sc=new Scanner(System.in);

        int arr[] =new int[10];
        for(int i=0;i<10;i++)
        {
            arr[i]=sc.nextInt();
        }

        int size=arr.length;
        int left=0;
        int right=size-1;
        int[] newa=new int[size];
        System.out.print("Before :");
        for(int i:arr)
        {
            System.out.print(i+",");
        }
        System.out.println();
        for(int i=0;i<=size-1;i++)
        {
            if(arr[i]%2==0)
            {
                newa[left++]=arr[i];
            } else
            {
                newa[right--]=arr[i];
            }
        }
        System.out.print("After:");

        for(int i:newa)
        {
            System.out.print(i+", ");
        }
    }
}
```

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    }
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}
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}
```

Ques02

```
package ques02;

import java.util.Scanner;

public class ques02 {

    public static void binary(int[] arr,int s)
    {
        int l=0;
        int size=arr.length;
        int r=size-1;
        int m;
        boolean flag=false;
        while(l<=r)
        {
            m=(l+r)/2;

            if(arr[m]==s)
            {
                flag=true;
                break;
            } else if(s<arr[m])
            {
                r=m-1;
            } else
            {
                l=m+1;
            }
        }
        if(flag)
        {
            System.out.println("Found");
        } else {
            System.out.println("Not Found");
        }
    }

    public static void main(String[] args) {
```

```
System.out.println("Enter 5 numbers:");
Scanner sc=new Scanner(System.in);

int arr[]={};
for(int i=0;i<5;i++)
{
    arr[i]=sc.nextInt();
}

int search;

System.out.println("Enter number you want to search:");
search=sc.nextInt();

binary(arr,search);

}
```

-----End-----