

```
1 import java.io.*;
2 import java.util.*;
3 class Bifurcate
4 {
5     static void segregateEvenOdd(int arr[])
6     {
7         int left = 0, right = arr.length - 1;
8         while (left < right)
9         {
10             while (arr[left]%2 == 0 && left < right)
11                 left++;
12             while (arr[right]%2 == 1 && left < right)
13                 right--;
14             if (left < right)
15             {
16                 int temp = arr[left];
17                 arr[left] = arr[right];
18                 arr[right] = temp;
19                 left++;
20                 right--;
21             }
22         }
23     }
24     public static void main (String[] args) {
25         Scanner s = new Scanner(System.in);
26         System.out.println("Author : J Sri Sai Mano");
27         System.out.println("SAP ID : 51834596");
28         System.out.println("Enter the length of the array");
29         int length = s.nextInt();
30         int [] arr = new int[length];
31         System.out.println("Enter the elements of the array");
32
33         for(int i=0; i<length; i++ ) {
34             arr[i] = s.nextInt();
35         }
36         segregateEvenOdd(arr);
37         System.out.println("Array after segregation");
38         for (int i = 0; i < arr.length; i++)
39             System.out.print(arr[i]+" ");
40     }
41 }
```



X Terminal



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Enter the length of the array:

5

Enter the elements of the array:

1

3

9

32

77

Array after segregation

32 3 9 1 77

Process finished.

```
1 abstract class House{  
2     abstract void BedRoom();  
3     abstract void Hall();  
4     abstract void Kitchen();  
5     abstract void DiningRoom();  
6     abstract void Balcony();  
7 }  
8 class Manoj extends House  
9 {  
10    void BedRoom()  
11    {  
12        System.out.println("House has Bed Room");  
13    }  
14    void Hall()  
15    {  
16        System.out.println("House has Hall");  
17    }  
18    void Kitchen()  
19    {  
20        System.out.println("House has Kitchen");  
21    }  
22    void DiningRoom()  
23    {  
24        System.out.println("House has Dining Room");  
25    }  
26    void Balcony()  
27    {  
28        System.out.println("House has Balcony");  
29    }  
30 }  
31 class Mansion  
32 {  
33     public static void main(String args[])  
34     {  
35         System.out.println("Author : J Sri Sai Manoj");  
36         System.out.println("SAP ID : 51834596");  
37         System.out.println("House_Name:");  
38         House s=new Manoj();  
39         s.BedRoom();  
40         s.Hall();  
41         s.Kitchen();  
42         s.DiningRoom();  
43         s.Balcony();  
44     }  
45 }
```

X Terminal



```
Author : J Sri Sai Manoj  
SAP ID : 51834596  
House_Name:  
House has Bed Room  
House has Hall  
House has Kitchen  
House has Dining Room  
house has Balcony
```

```
Process finished.
```

```
1 public class Pattern
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Author : J Sri Sai Manoj")
6         System.out.println("SAP ID : 51834596");
7         int val=1;
8         System.out.print("Output: ");
9         for(int i=0;i<7;i++)
10        {
11            for(int j=1;j<i;j++)
12            {
13                System.out.print(val);
14                val++;
15            }
16            System.out.print("\n");
17        }
18    }
19 }
```

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Output:

1
23
456
78910
1112131415

Process finished.

```
1 public class Merge
2 {
3     public static void main(String b[])
4     {
5         System.out.println("Author : J Sri Sai Ma
6         System.out.println("SAP ID : 51834596");
7         int count;
8         String temp;
9         count = b[0];
10        String str[] = new String[count];
11        for(int i = 0; i < count; i++)
12        {
13            str[i] = b[i];
14        }
15        for (int i = 0; i < count; i++)
16        {
17            for (int j = i + 1; j < count; j++)
18                if (str[i].compareTo(str[j])>0)
19                {
20                    temp = str[i];
21                    str[i] = str[j];
22                    str[j] = temp;
23                }
24        }
25    }
26    for (int i = 0; i <= count - 1; i++)
27    {
28        System.out.print(str[i] + ", ");
29    }
30 }
31 }
```

```
1 import java.util.Arrays;
2 import java.util.Collections;
3 public class AscendingOrder {
4     static void twoWaySort(Integer arr[], int n)
5     {
6         int l = 0, r = n - 1;
7         int k = 0;
8
9         while (l < r)
10        {
11            while (arr[l] % 2 != 0)
12            {
13                l++;
14                k++;
15            }
16            while (arr[r] % 2 == 0 && l < r)
17            {
18                r--;
19            }
20            if (l < r)
21            {
22                int temp = arr[l];
23                arr[l] = arr[r];
24                arr[r] = temp;
25            }
26        }
27        Arrays.sort(arr, k, n);
28    }
29    public static void main(String[] args)
30    {
31        System.out.println("Author : J Sri Sai Manoj");
32        System.out.println("SAP ID : 51834596");
33        Integer arr[] = { 1,3,4,62,32,87,66,15 };
34        System.out.println("Ascending Order: ");
35        twoWaySort(arr, arr.length);
36        System.out.println(Arrays.toString(arr));
37    }
38 }
```

X Terminal



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Ascending Order:

[1, 3, 15, 87, 4, 32, 62, 66]

Process finished.