



e..java



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```
1  import java.util. Scanner;
2  import java.util.Arrays;
3  import java.util.Collections;
4  public class AscendingOrder
5
6  static void twoWaySort(Integer arr[], int n)
7  {
8      int l = 0, r = n - 1;
9      int k = 0;
10
11     while (l < r)
12     {
13         while (arr[l] % 2 != 0)
14         {
15             l++;
16             k++;
17         }
18         while (arr[r] % 2 == 0 && l < r)
19             r--;
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("Question no:1\nAuthor:B.padmasai");
32     Integer arr[] = { 1,3,4,62,32,15,66,87 };
33     System.out.println("Ascending Order: ");
34     twoWaySort(arr, arr.length);
35     System.out.println(Arrays.toString(arr));
36 }
37
```



x Terminal



```
Question no:1  
Author:B.padmasai  
Sap id:51834617  
Ascending Order:  
[1, 3, 87, 15, 4, 32, 62, 66]  
  
Process finished.
```

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```
1 import java.io.*;
2 import java.util.*;
3 class EveOdd
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     {
26         System.out.println("Question no:2\nAuthor:B.padma");
27         Scanner s = new Scanner(System.in);
28         System.out.println("Enter the length of the arr.");
29         int length = s.nextInt();
30         int [] arr = new int[length];
31         System.out.println("Enter the elements of the a");
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 }
```



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x Terminal



```
Question no:2
Author:B.padma sai
Sap id:51834617
Enter the length of the array:
5
Enter the elements of the array:
56
22
13
17
2
Array after segregation
56 22 2 17 13
Process finished.
```

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```
1  abstract class House
2  {
3      abstract void BedRoom();
4      abstract void Hall();
5      abstract void Kitchen();
6      abstract void DiningRoom();
7  }
8  class Machan 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 }
27 class villa
28 {
29     public static void main(String args[])
30     {
31         System.out.println("Question no:3\nAuthor:B.padma");
32         System.out.println("House_Name: Brundhavan");
33         House p=new Machan();
34         p.BedRoom();
35         p.Hall();
36         p.Kitchen();
37         p.DiningRoom();
38     }
39 }
```





```
Question no:3  
Author:B.padma sai  
Sap id:51834617  
House_Name: Brundhavan  
House has Bed Room  
House has Hall  
House has Kitchen  
House has Dining Room  
  
Process finished.
```

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```
1 public class Pattern
2 {
3     public static void main(String[] args)
4     {
5         System.out.println("Question no:4\nAuthor:B.padmasa
6         int val=1;
7         System.out.print("Output: ");
8         for(int i=0;i<7;i++)
9         {
10            for(int j=1;j<i;j++)
11            {
12                System.out.print(val);
13                val++;
14            }
15            System.out.print("\n");
16        }
17    }
18 }
```





Question no:4  
Author:B.padmasai  
sap id:51834617  
Output:

1  
23  
456  
78910  
1112131415

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```
1 public class JavaExample
2 {
3     public static void main(String b[])
4     {
5         System.out.println("Question no:5\nAuthor:B.padi")
6         int count;
7         String temp;
8         count = b[0];
9         String str[] = new String[count];
10        for(int i = 0; i < count; i++)
11        {
12            str[i] = b[i];
13        }
14        for (int i = 0; i < count; i++)
15        {
16            for (int j = i + 1; j < count; j++) {
17                if (str[i].compareTo(str[j])>0)
18                {
19                    temp = str[i];
20                    str[i] = str[j];
21                    str[j] = temp;
22                }
23            }
24        }
25        for (int i = 0; i <= count - 1; i++)
26        {
27            System.out.print(str[i] + ", ");
28        }
29    }
30 }
```

