

4:501.00 KB/SVoLTE4G56

← Demo.java Saved

```
1 import java.io.*;
2 public class Demo{
3     private int num;
4     private int size;
5     public Demo(int x){
6         num = x;
7         size = 0;
8     }
9     void countDigit(){
10         for(int M = num; M != 0; M /= 10)
11             size++;
12     }
13     public int sumOfDigits(int x, int p){
14         if(x < 10)
15             return (int) Math.pow(x, p);
16         else{
17             int t = (int) Math.pow(x % 10, p);
18             return t + sumOfDigits(x / 10, --p);
19         }
20     }
21     public void check(){
22         if(num == sumOfDigits(num, size))
23             System.out.println(num + " is a Disarium Number");
24         else
25             System.out.println(num + " is not a Disarium Number");
26     }
27     public static void main(String args[])
28         throws IOException{
29         InputStreamReader in = new InputStreamReader(S
30         BufferedReader br = new BufferedReader(in);
31         System.out.println("Author: T.S.S.S.N.V.Pavan Kumar");
32         System.out.println("=====");
33         System.out.println("Enter your number: ");
34         int x = Integer.parseInt(br.readLine());
35         Demo obj = new Demo(x);
36         obj.countDigit();
```

× Terminal

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=====

Enter your number:
9

9 is a Disarium Number.



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Trail.java Saved

```
1 import java.util.Arrays;
2
3 public class Main
4 {
5     private static void sortBinaryArray(int[] inputArray)
6     {
7         int zeroCount = 0;
8
9         System.out.println("Author: T.S.S.S.N.V.Pavan Kumar");
10        System.out.println("=====");
11        System.out.println(" ");
12        System.out.println("Input Array Before Sorting : "+Arrays.toString(inputArray));
13        for (int n = 0; n < inputArray.length; n++)
14        {
15            if (inputArray[n] == 0)
16            {
17                zeroCount++;
18            }
19        }
20        for (int n = 0; n < zeroCount; n++)
21        {
22            inputArray[n] = 0;
23        }
24        for (int n = zeroCount; n < inputArray.length; n++)
25        {
26            inputArray[n] = 1;
27        }
28        System.out.println("Input Array After Sorting : "+Arrays.toString(inputArray));
29    }
30    public static void Main(String[] args)
31    {
32        sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
33    }
34 }
```

× Terminal

```
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=====
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]
```

2.



```
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Demo2.java Saved
1 public class Demo2
2 {
3     static int replaceDigit(int a, int numbertobereplaced,
4                             int replacingnumber)
5     {
6         int result = 0, Multiply = 1;
7
8         while (a % 10 > 0)
9         {
10
11             int remainder = a % 10;
12             if (remainder == numbertobereplaced)
13                 result = result + replacingnumber * Multiply;
14             else
15                 result = result + remainder * Multiply;
16             Multiply *= 10;
17             a = a / 10;
18         }
19         return result;
20     }
21     public static void Main(String[] args)
22     {
23         int a = 1347232, numbertobereplaced = 2, replacingnu
24         System.out.println("Author : T.S.S.S.N.V.Pavan Kumar
25         System.out.println(" ");
26         System.out.println(replaceDigit(a, numbertobereplace
27     }
28 }

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3. Process finished.
```



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Trail3.java Saved

```
1 public class Trail3
2 {
3     public static int binarySearch(int[] M, int left, int right, int n)
4     {
5         if (left > right) {
6             return -1;
7         }
8         int Mid = (left + right) / 2;
9
10        if (n == M[Mid]) {
11            return Mid;
12        }
13
14        else if (n < M[Mid]) {
15            return binarySearch(M, left, Mid - 1, n);
16        }
17        else {
18            return binarySearch(M, Mid + 1, right, n);
19        }
20    }
21    public static void Main(String[] args)
22    {
23        int[] M = { 2, 5, 6, 8, 9, 10 };
24        int key = 3;
25        int left = 0;
26        int right = M.length - 1;
27        int index = binarySearch(M, left, right, key);
28        System.out.println("Author: T.S.S.S.N.V.Pavan Kumar");
29        if (index != -1) {
30            System.out.println("Element found at index " + index);
31        } else {
32            System.out.println("Element not found in the array");
33        }
34    }
35 }
```

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Element not found in the array
Process finished.

5.

