```java
import java.io.*;
public class Main{
    private int num;
    private int size;
    public Main(int x){
        num = x;
        size = 0;
    }
    void countDigit(){
        for(int m = num; m != 0; m /= 10)
            size++;
    }
    public int sumOfDigits(int x, int p){
        if(x < 10)
            return (int)Math.pow(x, p);
        else{
            int t = (int)Math.pow(x % 10, p)
            return t + sumOfDigits(x / 10, --
        }
    }
    public void check(){
        if(num == sumOfDigits(num, size))
            System.out.println(num + " is a
        else
            System.out.println(num + " is no
    }
    public static void main(String args[])
    throws IOException{
        InputStreamReader in = new InputStrea
        BufferedReader br = new BufferedReade
        System.out.println("Author:S.Tarun T
        System.out.print("Number: ");
        int x = Integer.parseInt(br.readLine
        Main obj = new Main(x);
        obj.countDigit();
        obj.check();
    }
}
```

```
Author:S.Tarun Teja
SAP ID: 51834599
Number: 18
18 is not a Disarium Number.

Process finished.
```

```java
1   import java.util.Arrays;
2
3   public class Main
4   {
5       private static void sortBinaryArray(int[]
6       {
7           int zeroCount = 0;
8
9           System.out.println("Author:S.Tarun Te
10          System.out.println("Input Array Befor
11
12
13          for (int n = 0; n < inputArray.length
14          {
15              if (inputArray[n] == 0)
16              {
17                  zeroCount++;
18              }
19          }
20
21
22          for (int n = 0; n < zeroCount; n++)
23          {
24              inputArray[n] = 0;
25          }
26
27
28          for (int n = zeroCount; n < inputArra
29          {
30              inputArray[n] = 1;
31          }
32
33          System.out.println("Input Array After
34      }
35
36      public static void main(String[] args)
37      {
38          sortBinaryArray(new int[] {1, 0, 1, 1
39      }
```

: Make public 🌐

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

Process finished.
```

```java
1  public class Main
2  {
3  static int replaceDigit(int a, int numbertob
4                            int replacingnumbe
5  {
6      int result = 0, multiply = 1;
7
8      while (a % 10 > 0)
9      {
10
11         int remainder = a % 10;
12
13         if (remainder == numbertobereplaced)
14             result = result + replacingnumber
15
16         else
17             result = result + remainder * mul
18
19         multiply *= 10;
20         a = a / 10;
21     }
22     return result;
23 }
24
25 public static void main(String[] args)
26 {
27     int a = 645, numbertobereplaced = 6, repl
28     System.out.println("Author:S.Tarun Teja\r
29     System.out.println(replaceDigit(a, number
30 }
31 }
```

×   Terminal   🗗

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545

Process finished.

```java
1  class Main
2
3  .ic static int binarySearch(int[] M, int left
4
5  if (left > right) {
6      return -1;
7  }
8
9
10 int mid = (left + right) / 2;
11
12 if (n == M[mid]) {
13     return mid;
14 }
15
16 else if (n < M[mid]) {
17     return binarySearch(M, left, mid - 1, n);
18 }
19
20 else {
21     return binarySearch(M, mid + 1, right, n)
22 }
23
24
25 .ic static void main(String[] args)
26
27 int[] M = { 2, 5, 6, 8, 9, 10 };
28 int key = 3;
29
30 int left = 0;
31 int right = M.length - 1;
32
```

✕   Terminal   ⧉

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Element not found in the array

Process finished.