```
'a.io.*;
ss Main

 static void main(String[] args)throws IOExcepti

    BufferedReader br=new BufferedReader (new Inpu
    System.out.println("Author:K. Anushka \nSAP ID
    System.out.print("Enter a number : ");
    int n = Integer.parseInt(br.readLine());
    int copy = n, a = 0, sum = 0;
    String b = Integer.toString(n);
    int len = b.length();

    while(copy>0)
    {
        a = copy % 10;
        sum = sum + (int)Math.pow(a,len);
        len--;
        copy = copy / 10;
    }

    if(sum == n)
        System.out.println(n+" is a Disarium Numbe
    else
        System.out.println(n+" is not a Disarium N
```

Terminal

```
Author:K. Anushka
SAP ID:518347579
Enter a number : 5
5 is a Disarium Number.

Process finished.
```

```java
ort java.util.Arrays;

ic class Main

rivate static void sortBinaryArray(int[] inputA
{
    int zeroCount = 0;

    System.out.println("Author: K.Anushka \nSAP I
    System.out.println("Input Array Before Sortin


    for (int n = 0; n < inputArray.length; n++)
    {
        if (inputArray[n] == 0)
        {
            zeroCount++;
        }
    }


    for (int n = 0; n < zeroCount; n++)
    {
        inputArray[n] = 0;
    }


    for (int n = zeroCount; n < inputArray.length
    {
        inputArray[n] = 1;
    }

    System.out.println("Input Array After Sorting
}

```

Terminal

```
Author: K.Anushka
SAP ID:51834579
Input Array Before Sorting : [1, 0, 1, 1,
Input Array After Sorting : [0, 0, 0, 0, 1

Process finished.
```

```
1  ublic class Main
2
3  tatic int replaceDigit(int a, int numbertoberepl
4                 int replacingnumber)
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 * multipl
15
16    else
17      result = result + remainder * multiply;
18
19    multiply *= 10;
20    a = a / 10;
21  }
22  return result;
23
24
25 ublic static void main(String[] args)
26
27   int a = 645, numbertobereplaced = 6, replacingn
28   System.out.println("Author:K.Anushka\nSAP ID:51
29   System.out.println(replaceDigit(a, numbertobere
30
31
```

Terminal

```
Author:K.Anushka
SAP ID:51834579
545

Process finished.
```

```java
public class Main
{
    public static int binarySearch(int[] M, int le
    {
        if (left > right) {
            return -1;
        }


        int mid = (left + right) / 2;

        if (n == M[mid]) {
            return mid;
        }

        else if (n < M[mid]) {
            return binarySearch(M, left, mid - 1, n
        }

        else {
            return binarySearch(M, mid + 1, right,
        }
    }

    public static void main(String[] args)
    {
        int[] M = { 2, 5, 6, 8, 9, 10 };
        int key = 3;

        int left = 0;
        int right = M.length - 1;

        int index = binarySearch(M, left, right, k

        System.out.println("Author:K.Anushka \nSAP
        if (index != -1) {
            System.out.println("Element found at ir
        } else {
            System.out.println("Element not found i
        }
}
```

Make public

Terminal

```
Author:K.Anushka
SAP ID: 51834579
Element not found in the array

Process finished.
```