



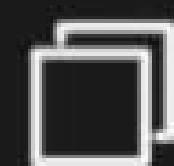
disarium.java



Saved




```
1  import java.io.*;
2  public class Main
3  {
4      public static void main(String[] args)throws
5      {
6          BufferedReader br=new BufferedReader
7          System.out.println("Name : Sk.Farhee
8          System.out.print("Enter a number : "
9          int n = Integer.parseInt(br.readLine
10         int copy = n, a = 0, sum = 0;
11         String b = Integer.toString(n);
12         int len = b.length();
13
14         while(copy>0)
15         {
16             a = copy % 10;
17             sum = sum + (int)Math.pow(a,len)
18             len--;
19             copy = copy / 10;
20         }
21
22         if(sum == n)
23             System.out.println(n+" is a Disa
24         else
25             System.out.println(n+" is not a
26     }
27 }
```

x Terminal



```
Name : Sk.Farheena
SAP ID:51834710
Enter a number : 175
175 is a Disarium Number.
```

```
Process finished.
```

← disarium.java   

Saved

```
1 import java.io.*;
2 public class Main{
3     private int num;
4     private int size;
5     public Main(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(System.in);
30         BufferedReader br = new BufferedReader(in);
31         System.out.println("Author:Sk.Farheena\n");
32         System.out.print("Number: ");
33         int x = Integer.parseInt(br.readLine());
34         Main obj = new Main(x);
35         obj.countDigit();
36         obj.check();
37     }
38 }
```

✕ Terminal 

```
Author:Sk.Farheena
SAP ID: 51834710
Number: 124
124 is not a Disarium Number.

Process finished.
```



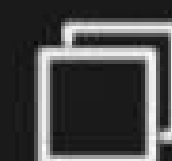
disarium.java



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("Name :SK.Farheena\nSAP ID:51834710");
10         System.out.println("Input Array Before Sorting : ");
11
12         for (int n = 0; n < inputArray.length; n++)
13         {
14             if (inputArray[n] == 0)
15             {
16                 zeroCount++;
17             }
18         }
19
20         for (int n = 0; n < zeroCount; n++)
21         {
22             inputArray[n] = 0;
23         }
24
25         for (int n = zeroCount; n < inputArray.length; n++)
26         {
27             inputArray[n] = 1;
28         }
29
30         System.out.println("Input Array After Sorting : ");
31     }
32
33     public static void main(String[] args)
34     {
35         sortBinaryArray(new int[] {1, 0, 1, 1, 0, 0});
36     }
```

× Terminal



Name :SK.Farheena

SAP ID:51834710

Input Array Before Sorting : [1, 0, 1, 1, 0, 0]

Input Array After Sorting : [0, 0, 0, 0, 1, 1]

Process finished



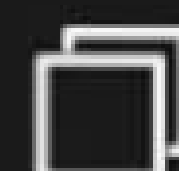
disarium.java

Saved



```
1 public class Main
2 {
3     static int replaceDigit(int a, int numbertoberep
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 * m
15
16             else
17                 result = result + remainder * multiply
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 = 1347232, numbertobereplaced = 2, repl
28         System.out.println("Name:Sk.Farheena\nSAP ID:
29         System.out.println(replaceDigit(a, numbertobe
30     }
31 }
```

✕ Terminal



```
Name:Sk.Farheena
SAP ID:51834710
1347636
```

```
Process finished.
```



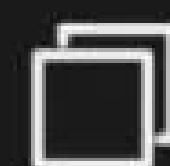
disarium.java



Saved

```
1 public class Main
2 {
3     public static int binarySearch(int[] M, int left, int right, int n)
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    public static void main(String[] args)
26    {
27        int[] M = { 2, 15, 61, 8, 9, 10 };
28        int key = 15;
29
30        int left = 0;
31        int right = M.length - 1;
32
33        int index = binarySearch(M, left, right, key);
34
35        System.out.println("Name : Sk.Farheena\nSAP ID: 51834710");
36        if (index != -1) {
37            System.out.println("Element found at index " + index);
38        } else {
39            System.out.println("Element not found");
40        }
41    }
42 }
```

✕ Terminal



```
Name : Sk.Farheena
SAP ID: 51834710
Element found at index 1

Process finished.
```