



```
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 Disa
24         else
25             System.out.println(num + " is not a
26     }
27     public static void main(String args[])
28     throws IOException{
29         InputStreamReader in = new InputSteamRe
30         BufferedReader br = new BufferedReader(i
31         System.out.println("Author:G s s pavan \
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 }
```





```
1
2
3
4 ;
5 x){
6
7
8
9 ){
10 num; m != 0; m /= 10)
11
12
13 Digits(int x, int p){
14
15 int)Math.pow(x, p);
16
17 (int)Math.pow(x % 10, p);
18 + sumOfDigits(x / 10, --p);
19
20
21 k(){
22 mOfDigits(num, size))
23 ut.println(num + " is a Disarium Number.");
24
25 ut.println(num + " is not a Disarium Number.");
26
27 id main(String args[])
28 on{
29 eader in = new InputStreamReader(System.in);
30 er br = new BufferedReader(in);
31 rintln("Author:G s s pavan \nSAP ID: 51834699");
32 rint("Number: ");
33 ger.parseInt(br.readLine());
34 ew Main(x);
35 it();
36
37
38
```



Author:G s s pavan  
SAP ID: 51834699  
Number: 24  
24 is not a Disarium Number.

Process finished.

Ad



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```
1  import java.util.Arrays;
2
3  public class Main
4  {
5      private static void sortBinaryArray(int[] input
6      {
7          int zeroCount = 0;
8
9          System.out.println("Name :G s s pavan\nSAP I
10         System.out.println("Input Array Before Sorti
11
12
13         for (int n = 0; n < inputArray.length; n++)
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 < inputArray.lengt
29         {
30             inputArray[n] = 1;
31         }
32
33         System.out.println("Input Array After Sortin
34     }
35
36     public static void main(String[] args)
37     {
38         sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1,
39     }
40 }
```

Make public





hospital.java



Saved

```
1
2
3
4
5 y(int[] inputArray)
6
7
8
9 pavan\nSAP ID : 51834699");
10 Before Sorting : "+Arrays.toString(inputArray));
11
12
13 length; n++)
14
15
16
17
18
19
20
21
22 ++)
23
24
25
26
27
28 tArray.length; n++)
29
30
31
32
33 After Sorting : "+Arrays.toString(inputArray));
34
35
36 rgs)
37
38 1, 1, 0, 1, 0, 0});
39
40
```

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Terminal



Name :G s s pavan

SAP ID : 51834699

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

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

Process finished.

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Terminal



```
s pavan  
1834699  
y Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]  
y After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]  
  
hished.
```

Ad



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Open





```
1 public class Main
2
3     public static int binarySearch(int[] M, int l
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,
18        }
19
20        else {
21            return binarySearch(M, mid + 1, right
22        }
23    }
24
25    public 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
33        int index = binarySearch(M, left, right,
34
35        System.out.println("Author:G s s pavan\n");
36        if (index != -1) {
37            System.out.println("Element found at
38        } else {
39            System.out.println("Element not found
40        }
41    }
42 }
```







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```
1
2
3  binarySearch(int[] M, int left, int right, int n)
4
5  t) {
6
7
8
9
10   + right) / 2;
11
12  ) {
13
14
15
16  mid]) {
17  rySearch(M, left, mid - 1, n);
18
19
20
21  rySearch(M, mid + 1, right, n);
22
23
24
25  main(String[] args)
26
27  5, 6, 8, 9, 10 };
28
29
30
31
32  ength - 1;
33
34  arySearch(M, left, right, key);
35
36  tln("Author:G s s pavan\nSAP ID: 51834699");
37  ) {
38  println("Element found at index " + index);
39
40  println("Element not found in the array");
41
42
```

Make public





Terminal



```
Author:G s s pavan  
SAP ID: 51834699  
Element not found in the array
```

```
Process finished.
```



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```
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 *
15
16             else
17                 result = result + remainder * multiplic
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 = 1234678, numbertobereplaced = 9, rep
28         System.out.println("Author:G s s pavan \nSAP
29         System.out.println(replaceDigit(a, numbertob
30     }
31 }
```

Make public





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Saved

```
1
2
3  int numbertobereplaced,
4  : replacingnumber)
5
6  1;
7
8
9
10
11 ;
12
13 rtobereplaced)
14 replacingnumber * multiply;
15
16
17 remainder * multiply;
18
19
20
21
22
23
24
25 [] args)
26
27 ereplaced = 9, replacingnumber = 10;
28 :G s s pavan \nSAP ID:51834699");
29 Digit(a, numbertobereplaced, replacingnumber));
30
31
```

Make public





Terminal



```
Author:G s s pavan  
SAP ID:51834699  
1234678
```

```
Process finished.
```

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