

pavan.java 

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Call

```
1 import java.io.*;
2 public class Main
3 {
4     public static void main(String[] args) throws IOException
5     {
6         BufferedReader br=new BufferedReader (new InputStreamReader(System.in));
7         System.out.println("Author:v.pavankumar\nSAP ID:51834509");
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        System.out.println("The sum of digits is "+sum);
22    }
23 }
```

File info 



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```
1/     sum = sum + (int)Matn.pow(a, len);
18    len--;
19    copy = copy / 10;
20 }
21
22 if(sum == n)
23     System.out.println(n+" is a Disarium Number.");
24 else
25     System.out.println(n+" is not a Disarium Number.");
26
27 }
```

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x Terminal



Author:v.pavankumar
SAP ID:51834509
Enter a number : 1
1 is a Disarium Number.

Process finished.

 Call

```
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:v.pavankumar\nSAP ID:51834509");
10        System.out.println("Input Array Before Sorting : "+Arrays.toString(inputArray));
11
12
13        for (int n = 0; n < inputArray.length; n++)
14        {
15            if (inputArray[n] == 0)
16            {
17                zeroCount++;
18            }
19        }
20    }
21 }
```

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```
13  
14     for (int n = 0; n < inputArray.length; n++)  
15     {  
16         if (inputArray[n] == 0)  
17         {  
18             zeroCount++;  
19         }  
20     }  
21  
22     for (int n = 0; n < zeroCount; n++)  
23     {  
24         inputArray[n] = 0;  
25     }  
26  
27     for (int n = zeroCount; n < inputArray.length; n++)  
28     {  
29         inputArray[n] = 1;
```

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```
28     for (int n = zeroCount; n < inputArray.length; n++)
29     {
30         inputArray[n] = 1;
31     }
32
33     System.out.println("Input Array After Sorting : "+Arrays.toString(inputArray));
34 }
35
36 public static void main(String[] args)
37 {
38     sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
39 }
40 }
```

⋮ File info 



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```
Author:v.pavankumar
SAP ID:51834509
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]
```

```
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```

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```
1 import java.util.*;
2 import java.lang.*;
3 // Java program to replace a digit
4 // with other in a given number.
5 class GFG
6 {
7     static int replaceDigit(int x, int d1,
8                             int d2)
9     {
10         int result = 0, multiply = 1;
11
12         while (x % 10 > 0)
13         {
14
15             // Take remainder of number
16             // starting from the unit
17             // digit
18             int remainder = x % 10;
19             if (remainder == d1)
20                 result = result * multiply + d2;
21             else
22                 result = result * multiply + remainder;
23             multiply *= 10;
24         }
25         return result;
26     }
27 }
```

File info  : remainder = x % 10;
Check whether it is equal

Run 

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```
15 // take remainder of number
16 // starting from the unit
17 // place digit
18 int remainder = x % 10;
19 // check whether it is equal
20 // to the digit to be replaced.
21 // if yes then replace
22 if (remainder == d1){
23     result = result + d2 * multiply;
24 }
25 else {// else remain as such
26     result = result + remainder * multiply;
27 }
28 // Update and move forward
29 // from unit place to
30 // hundred place and so on.
31 multiply *= 10;
: File info  / 10; // update the value
: result:
```

File info  / 10; // update the value

result:

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```
33     }
34     return result;
35 }
36 // Driver code
37 public static void main(String[] args)
38 {
39     Scanner sc=new Scanner(System.in);
40     System.out.println("Enter a number:");
41     int x =sc.nextInt();
42     System.out.println("enter which no you replace:");
43     int d1 =sc.nextInt();
44     System.out.println("enter the number which number you want:");
45     int d2 =sc.nextInt();
46     System.out.println(replaceDigit( x, d1, d2));
47 }
48 }
```

⋮ Read Mode

x Terminal



Author :V.Pavan Kumar

Sap id : 51834509

Enter a number:

1347232

enter which no you replace:

2

enter the number which number you want:

6

1347636

Process finished.

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```
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         int mid = (left + right) / 2;
10
11        if (n == M[mid]) {
12            return mid;
13        }
14
15        else if (n < M[mid]) {
16            return binarySearch(M, left, mid - 1, n);
17        }
18    }
19 }
```

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```
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, key);
34
35     System.out.println("Author:v.pavankumar\nSAP ID: 51834509");
36     if (index != -1) {
37         System.out.println("Element found at index " + index);
38     } else {
39         System.out.println("Element not found in the array");
```

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```
Author:v.pavankumar  
SAP ID: 51834509  
Element not found in the array
```

```
Process finished.
```