


// title :

// Description :

// tags :

```
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
7          System.out.print("Enter a number : ");
8          int n = Integer.parseInt(br.readLine());
9          int copy = n, a = 0, sum = 0;
10         String b = Integer.toString(n);
11         int len = b.length();
12
13         while(copy>0)
14         {
15             a = copy % 10;
16             sum = sum + (int)Math.pow(a,len);
17             len--;
18             copy = copy / 10;
19         }
20
21         if(sum == n){
22             System.out.println(n+" is a Disarium Number.");
23         }
24         else{
25             System.out.println(n+" is not a Disarium Number.");
26         }
27         System.out.println("Vamsi.k 51834764 Java-2");
28     }
29 }
```



× Terminal



Enter a number : 1872

1872 is not a Disarium Number.

Vamsi.k 51834764 Java-2

Process finished.



1.A.

```

1  import java.util.Arrays;
2
3  public class Main
4  {
5      private static void sortBinaryArray(int[] inputArray)
6      {
7          int zeroCount = 0;
8          System.out.println("Input Array Before Sorting : "+Arrays.toString(
9              for (int n = 0; n < inputArray.length; n++)
10             {
11                 if (inputArray[n] == 0)
12                 {
13                     zeroCount++;
14                 }
15             }
16             for (int n = 0; n < zeroCount; n++)
17             {
18                 inputArray[n] = 0;
19             }
20             for (int n = zeroCount; n < inputArray.length; n++)
21             {
22                 inputArray[n] = 1;
23             }
24             System.out.println("Input Array After Sorting : "+Arrays.toString(
25         }
26     public static void main(String[] args)
27     {
28         sortBinaryArray(new int[] {0, 1, 1, 0, 0, 1, 1, 0});
29         System.out.println("Vamsi.k 51834764 Java-2");
30     }
31 }

```

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

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

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Process finished.

2.A.

```

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             int remainder = x % 10;
15             // check whether it is equal
16             if (remainder == d1){
17                 result = result + d2 * multiply;
18             }
19             else { // else remain as such
20                 result = result + remainder * multiply;
21             }
22             multiply *= 10;
23             x = x / 10; // update the value
24         }
25         return result;
26     }
27     // Driver code
28     public static void main(String[] args)
29     {
30         Scanner sc=new Scanner(System.in);
31         System.out.println("Enter a number:");
32         int x=sc.nextInt();
33         System.out.println("enter which no you replace:");
34         int d1=sc.nextInt();

```

Enter a number:

168

enter which no you replace:

2

enter the number which number you want:

2

168

Vamsi.k 51834764 Java-2

Process finished.


```
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         int mid = (left + right) / 2;
9
10        if (n == M[mid]) {
11            return mid;
12        }
13        else if (n < M[mid]) {
14            return binarySearch(M, left, mid - 1, n);
15        }
16
17        else {
18            return binarySearch(M, mid + 1, right, n);
19        }
20    }
21
22    public static void main(String[] args)
23    {
24        int[] M = { 3, 7, 11, 5, 9, 11};
25        int key = 4;
26        int left = 0;
27        int right = M.length - 1;
28        int index = binarySearch(M, left, right, key);
29        if (index != -1) {
30            System.out.println("Element found at index " + index);
31        } else {
32            System.out.println("Element not found in the array");
33        }
34        System.out.println("Vamsi.k 51834864 Java-2");
35    }
36 }
```

Element not found in the array
Vamsi.k 51834864 Java-2

Process finished.