

```

1  t java.io.*;
2  : class Main
3
4  ublic static void main(String[] args)throws IOEx
5      {
6          BufferedReader br=new BufferedReader (new
7          System.out.println("Author:D.Pavan Sai Sai
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 Disarium Number")
24         else
25             System.out.println(n+" is not a Disarium Number")
26     }
27

```

✕ Terminal



```

Author:D.Pavan Sai Santosh
SAP ID:51834784
Enter a number : 3
3 is a Disarium Number.

```

Process finished.

```

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:D.Pavan Sai Santosh");
10         System.out.println("Input Array Before Sorting : ");
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.length; n++)
29         {
30             inputArray[n] = 1;
31         }
32
33         System.out.println("Input Array After Sorting : ");
34     }
35

```

✕ Terminal



```

Author:D.Pavan Sai Santosh
SAP ID:51834784
Input Array Before Sorting : [1, 0, 1, 1, 1]
Input Array After Sorting : [0, 0, 0, 0, 1]

Process finished.

```



```

1 public class Main
2
3 static int replaceDigit(int a, int numbertobereplac
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 * multi
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 = 645, numbertobereplaced = 6, replacing
28     System.out.println("Author:D.Pavan Sai Santosh
29     System.out.println(replaceDigit(a, number tober
30
31

```

✕ Terminal



```

Author:D.Pavan Sai Santosh
SAP ID:51834784
545

```

Process finished.

```

1 public class Main
2
3     public static int binarySearch(int[] M, int left,
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, 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:D.Pavan Sai Santosh");

```

✕ Terminal



Author:D.Pavan Sai Santosh

SAP ID: 51834784

Element not found in the array

Process finished.