

```

import java.io.*;
public class Main
{
    public static void main(String[] args)throws IOException
    {
        BufferedReader br=new BufferedReader (new InputStreamReader(System.in));
        System.out.println("Author:P.Kathyayani\nSAP ID:51834723");
        System.out.print("Enter a number : ");
        int n = Integer.parseInt(br.readLine());
        int copy = n, a = 0, sum = 0;
        String b = Integer.toString(n);
        int len = b.length();

        while(copy>0)
        {
            a = copy % 10;
            sum = sum + (int)Math.pow(a, len);

```

```

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 }

```

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Enter a number : 2345

2345 is not a Disarium Number.

Process finished.

```
import java.util.Arrays;

public class Main
{
    private static void sortBinaryArray(int[] inputArray)
    {
        int zeroCount = 0;

        System.out.println("Author:P.Kathyayani\nSAP ID:51834723");
        System.out.println("Input Array Before Sorting : "+Arrays.toString(inputArray));

        for (int n = 0; n < inputArray.length; n++)
        {
            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
```

```
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 }
```

```
Author:P.Kathyayani  
SAP ID:51834723  
Input Array Before Sorting : [1, 0, 1, 1, 0, 1, 0, 0]  
Input Array After Sorting : [0, 0, 0, 0, 1, 1, 1, 1]  
  
Process finished.  
█
```

```
1 public class Main
2 {
3     static int replaceDigit(int a, int numbertobereplaced,
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 * multiply;
15
16             else
```



```
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 = 6547, numbertobereplaced = 6, replacingnumber = 9;
28     System.out.println("Author:P.Kathyayani\nSAP ID:51834723");
29     System.out.println(replaceDigit(a, numbertobereplaced, replacingnumber));
30 }
31 }
```

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SAP ID:51834723
9547

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
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        else if (n > M[mid]) {
20            return binarySearch(M, mid + 1, right, n);
21        }
22    }
23 }
```

```
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 = 6;
29     int left = 0;
30     int right = M.length - 1;
```

```
33     int index = binarySearch(M, left, right, key);
34
35     System.out.println("Author:P.Kathyayani\nSAP ID: 51834723");
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");
40     }
41 }
42 }
```

Author:P.Kathyayani
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Element found at index 2
Process finished.

JAVA_QUIZ_DAY_6

Attempts allowed: 1

This quiz closed on Thursday, 23 July
2020, 4:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

	Marks /	Grade /	
State	20.00	10.00	Review
Finished Submitted Thursday, 23 July 2020, 3:59 PM	5.00	2.50	Not permitted

YOUR FINAL GRADE
FOR THIS QUIZ IS
2.50/10.00.