



bts.java



Saved



```
// 1 question //
import java.io.*;
3 public class Main
4 {
5     public static void main(String[] args)throws
6     {
7         BufferedReader br=new BufferedReader
8         System.out.println("Author:B.devi pr
9         System.out.print("Enter a number : "
10        int n = Integer.parseInt(br.readLine
11        int copy = n, a = 0, sum = 0;
12        String b = Integer.toString(n);
13        int len = b.length();
14
15        while(copy>0)
16        {
17            a = copy % 10;
18            sum = sum + (int)Math.pow(a,len)
19            len--;
20            copy = copy / 10;
21        }
22
23        if(sum == n)
24            System.out.println(n+" is a Disa
25        else
26            System.out.println(n+" is not a
27    }
28 }
```



x Terminal



```
Author:B.devi priya
SAP ID:51834491
Enter a number : 43
43 is not a Disarium Number.
```

```
Process finished.
```





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```
1
2 1.Arrays;
3
4
5
6 c void sortBinaryArray(int[] inputArray)
7
8     ount = 0;
9
10 t.println("Author:B.devi priya\nSAP ID:51834491")
11 t.println("Input Array Before Sorting : "+Arrays
12
13
14 n = 0; n < inputArray.length; n++)
15
16 nputArray[n] == 0)
17
18 zeroCount++;
19
20
21
22
23
24 n = 0; n < zeroCount; n++)
25
26 Array[n] = 0;
27
28
29
30 n = zeroCount; n < inputArray.length; n++)
31
32 Array[n] = 1;
33
34
35
36 t.println("Input Array After Sorting : "+Arrays.
37
38
39 void main(String[] args)
40
41 yArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
```



× Terminal



Author: B.devi priya

AP ID: 51834491

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

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

Process finished.



```
//3 question//
public class Main
{
3  static int replaceDigit(int a, int numbertoberep
4                                int replacingnumber)
5
6  {
7      int result = 0, multiply = 1;
8
9      while (a % 10 > 0)
10     {
11
12         int remainder = a % 10;
13
14         if (remainder == numbertobereplaced)
15             result = result + replacingnumber *
16
17         else
18             result = result + remainder * multiplic
19
20         multiply *= 10;
21         a = a / 10;
22     }
23     return result;
24 }
25
26 public static void main(String[] args)
27 {
28     int a = 645, numbertobereplaced = 6, replaci
29     System.out.println("Author:B.devi priya\nSAP
30     System.out.println(replaceDigit(a, numbertob
31 }
32 }
```

× Terminal



```
Author:B.devi priya  
SAP ID:51834491  
545
```

```
Process finished.
```




bts.java

Saved



```
1 // 5 question //
2 public class Main
3 {
4     public static int binarySearch(int[] M, int
5     {
6         if (left > right) {
7             return -1;
8         }
9
10
11         int mid = (left + right) / 2;
12
13         if (n == M[mid]) {
14             return mid;
15         }
16
17         else if (n < M[mid]) {
18             return binarySearch(M, left, mid - 1
19         }
20
21         else {
22             return binarySearch(M, mid + 1, right
23         }
24     }
25
26     public static void main(String[] args)
27     {
28         int[] M = { 2, 5, 6, 8, 9, 10 };
29         int key = 3;
30
31         int left = 0;
32         int right = M.length - 1;
33
34         int index = binarySearch(M, left, right,
35
36         System.out.println("Author:B.devi priya\
37         if (index != -1) {
38             System.out.println("Element found at
39         } else {
40             System.out.println("Element not found
41         }
42     }
43 }
```

Make public





Terminal



Author:B.devi priya

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Element not found in the array

Process finished.

