



hcl.java

Saved



```
1 //question 1//
2 import java.io.*;
3 public class main
4 {
5     public static void main(String[] args)throws IOException
6     {
7         BufferedReader br=new BufferedReader (new InputStreamReader
8         System.out.println("Author:ch.madhu sai\nSAP ID:51834527");
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 Disarium Number.");
25        else
26            System.out.println(n+" is not a Disarium Number.");
27    }
28 }
```



Terminal



```
Author:ch.madhu sai  
SAP ID:51834527  
Enter a number : 35  
35 is not a Disarium Number.  
  
Process finished.
```



```
1 //question 2//
2 import java.util.Arrays;
3
4 public class Main
5 {
6     private static void sortBinaryArray(int[] inputArray)
7     {
8         int zeroCount = 0;
9
10        System.out.println("Author:ch.madhu sai\nSAP ID:51834527");
11        System.out.println("Input Array Before Sorting : "+Arrays.toString(inputArray));
12
13
14        for (int n = 0; n < inputArray.length; n++)
15        {
16            if (inputArray[n] == 0)
17            {
18                zeroCount++;
19            }
20        }
21
22
23
24        for (int n = 0; n < zeroCount; n++)
25        {
26            inputArray[n] = 0;
27        }
28
29
30
31        for (int n = zeroCount; n < inputArray.length; n++)
32        {
33            inputArray[n] = 1;
34        }
35
36        System.out.println("Input Array After Sorting : "+Arrays.toString(inputArray));
37    }
38
39    public static void main(String[] args)
40    {
41        sortBinaryArray(new int[] {1, 0, 1, 1, 0, 1, 0, 0});
42    }
43 }
```



Terminal



```
Author:ch.madhu sai  
SAP ID:51834527  
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 //question 3//
2 import java.util.*;
3 import java.lang.*;
4 // Java program to replace a digit
5 // with other in a given number.
6 class GFG
7 {
8     static int replaceDigit(int x, int d1,
9                             int d2)
10 {
11     int result = 0, multiply = 1;
12
13     while (x % 10 > 0)
14     {
15
16         // Take remainder of number
17         // starting from the unit
18         // place digit
19         int remainder = x % 10;
20         // check whether it is equal
21         // to the digit to be replaced.
22         // if yes then replace
23         if (remainder == d1){
24             result = result + d2 * multiply;
25         }
26         else { // else remain as such
27             result = result + remainder * multiply;
28         }
29
30         // Update and move forward
31         // from unit place to
32         // hundred place and so on.
33         multiply *= 10;
34         x = x / 10; // update the value
35     }
36     return result;
37 }
38 // Driver code
39 public static void main(String[] args)
40 {
41     Scanner sc=new Scanner(System.in);
42     System.out.println("Enter a number:");
43     int x =sc.nextInt();
44     System.out.println("enter which no you replace:");
45     int d1 =sc.nextInt();
46     System.out.println("enter the number which number you want:");
47     int d2 =sc.nextInt();
48     System.out.println(replaceDigit( x, d1, d2));
49 }
```



Terminal



Enter a number:

3556

enter which no you replace:

3

enter the number which number you want:

8

8556

Process finished.





```
1 //question 5//
2 public class Main
3 {
4     public static int binarySearch(int[] M, int left, int right, int r
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, n);
19         }
20
21         else {
22             return binarySearch(M, mid + 1, right, n);
23         }
24     }
25 }
26
27 public static void main(String[] args)
28 {
29     int[] M = { 2, 5, 6, 8, 9, 10 };
30     int key = 3;
31
32     int left = 0;
33     int right = M.length - 1;
34
35     int index = binarySearch(M, left, right, key);
36
37     System.out.println("Author:ch.madhusai\nSAP ID: 51834527");
38     if (index != -1) {
39         System.out.println("Element found at index " + index);
40     } else {
41         System.out.println("Element not found in the array");
42     }
43 }
```



Terminal



```
Author:ch.madhusai  
SAP ID: 51834527  
Element not found in the array  
  
Process finished.
```


JAVA_QUIZ_DAY_6

Attempts allowed: 1

This quiz opened at Thursday, 23 July 2020, 3:00 PM

This quiz will close at Thursday, 23 July 2020, 4:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks / 20.00	Grade / 10.00	Review
Finished Submitted Thursday, 23 July 2020, 3:39 PM	7.00	3.50	



YOUR FINAL GRADE FOR
THIS QUIZ IS 3.50/10.00.

No more attempts are allowed

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