

1. Program

Question 1

Revisit Later

How to Attempt?

Most Frequent Digit – You need to find which digit occurs most number of times across the four given input numbers.

The prototype of the function is:

int MostFrequentDigit (int input1, int input2, int input3, int input4);

where,

input1, input2, input3 and input4 are the four given input numbers.

The function is expected to find and return the most frequent digit.

Example1 –

If input1=123, input2=234, input3=345, input4=673

We see that across these four numbers,

1, 5, 6 and 7 occur once,

2 and 4 occur twice, and

3 occurs four times.

Therefore, 3 is the most frequent digit and so the function must return 3

NOTE: If more than a digit occurs the same number of *most* times, then the highest of those digits should be the result. Below example illustrates this.

Example2 –

If input1=123, input2=456, input3=345, input4=5043

We see that

0, 1, 2 and 6 occur once, and

3, 4 and 5 occur thrice.

As there are three digits (3, 4 and 5) that occur most number of times, the result will be the highest (max) digit out of these three. Hence, the result should be 5

Let us see couple of more examples -

1

Attempted: 1/1

JAVA8

Compiler: Java - 1.8

```
1 import java.io.*;
2 import java.util.*;
3
4 // Read only region start
5 class UserMainCode
6 {
7
8     public int MostFrequentDigit(int input1,int input2,int input3,int input4){
9         // Read only region end
10         int [] nums = {input1, input2, input3, input4};
11         int [] freq = new int[10];
12         Arrays.fill(freq,0);
13
14         for (int num : nums){
15             while (num != 0){
16                 int digit = num % 10;
17                 freq[digit]++;
18                 num /= 10;
19             }
20         }
21         int maxFreq = 0;
22         for (int i = 0; i <= 9; i++){
23             if (freq[maxFreq] <= freq[i]) maxFreq = i;
24         }
25         return maxFreq;
26     }
27 }
28
```

☐ Use Custom Input

?

Compile and Test

Submit Code

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1. Program

1

Attempted: 1/1

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Let us see couple of more examples -

0/1 - Sample Test Cases Failed

default

CODE EXECUTION DETAILS

Time: 222 ms

Memory: 103812 kb

TEST CASE INFORMATION

Input

123,234,345,673

Expected Output

3

Actual Output

3

CONSOLE OUTPUT

STANDARD ERROR/WARNING

None

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Tests

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YUKESH R M

LP_Practice_MostFrequentDigit / Saved: 0 seconds ago

Test Time: 00:57:50

Settings

Finish Test

1. Program

1

Attempted: 1/1

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Let us see couple of more examples -

Code Execution

Code History

1/9 - Graded Test Cases Failed

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Test case 8

Test case 9

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1. Program

1

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Let us see couple of more examples -


Revisit Later


JAVA8


```
1 import java.util.*;
2 import java.io.*;
3 
4 // Read input from stdin and
5 class Main {
6     public static void main(String[] args) {
7         Scanner sc = new Scanner(System.in);
8         int input1 = sc.nextInt();
9         int input2 = sc.nextInt();
10        int input3 = sc.nextInt();
11        int input4 = sc.nextInt();
12        int result = MostFrequentDigit(input1, input2, input3, input4);
13        System.out.println(result);
14    }
15 }
```


☐ Use Custom Input

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 Finish Test

 Remaining Time: 00:57:40





Your Test Summary

1 Total Questions

- Attempted: 1/1
- Marked for Revisit: 0/1
- Unattempted: 0/1

Section Summary

#	SECTION NAME	STATUS
1.	Program Untimed Section	<div> <div>1</div> <div>0</div> </div> <div>Total: 1 Questions</div>

Yes, End Test!

No, Back to Test