

1. Program

< 1 >  

Attempted: 1/1

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 -

Example3 –

If input1=1203, input2=7624, input3=2046, and input4=1052

The digit 2 occurs four times.

Therefore, the most frequent digit = 2

Example4 –

If input1=1203, input2=7624, input3=2046, and input4=1002

The digits 0 and 2 occurs four times. 2 is higher than 0.

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        // Write code here...
11        int arr[]={input1,input2,input3,input4};
12        int temp[]=new int[10];
13        int num;
14        for(int i=0;i<arr.length;i++)
15        {
16            num=arr[i];
17            while(num!=0)
18            {
19                int n=num%10;
20                temp[n]++;
21                num/=10;
22            }
23        }
24        int max=-1;
25        int x=0;
26        for(int i=0;i<temp.length;i++)
27        {
28            if(temp[i]>max)
29            {
30                max=temp[i];
31                x=i;
32            }
33        }
34        return x;
35    }
36 }
```

☐ Use Custom Input

0

Compile and Test

Submit Code

Mercermettl

sujanaLP_Practice_MostFrequentDigit / Saved: 60 seconds ago

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The digits 0 and 2 occurs four times. 2 is higher than 0.

Use Custom Input

Code Execution

1/9 - Graded Test

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

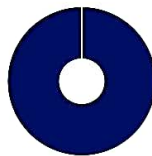
Test case 8

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Finish Test

Remaining Time: 01:02:20



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	1 Total: 1 Questions

Yes, End Test!

No, Back to Test