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NPAT 2017

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Q1. Multiple of at least two digits

Due on 2017-08-13, 18:00 IST

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Triangle
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Maximum of 3
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☐ Compiler Information

Weightage: 10%

☐ Sum of two numbers

Note: In this question, you have to understand the code that is given and provide a testcase as explained in the problem statement.

☐ Solution for Sum of two numbers

☐ Factorial

The following function takes an integer $n \geq 10$ as an argument. It should return 1 if n is a multiple of at least two of its digits, and it should return 0 otherwise.

☐ Solution for Factorial

☐ Reverse Words

For example, the function should return 1 if $n = 22$ or $n = 24$, and it should return 0 if $n = 23$ or $n = 42$.

☐ Store Credit

Give a value of n for which the given function does NOT work.

☐ Solution for Reverse Words

☐ Leap Year

```
int check(int n) {
    int m = n;
    int digit;
    int count = 0;
    while(m > 0) {
        digit = m % 10;
        m = m / 10;
        if(n % digit == 0) {
            count++;
        }
    }
    if(count >= 2) {
        return 1;
    } else {
        return 0;
    }
}
```

Open up the code submission box below and write your test case where you would normally enter your code.

Your input should be a positive integer.

Sample Test Cases

	Input	Output
Test Case 1		correct

Test Case 2

correct

Due Date Exceeded. You scored 100.0/100.

Your last recorded submission was :

```
1 #include <stdio.h>
2 #include <regex.h>
3
4 int myinput =
5 100
6 ;
7
8 char regex_format[] = "[1-9][0-9]*0[0-9]*";
9
10 int main() {
11     regex_t emma;
12     regmatch_t matches[20];
13     int status;
14     char myinput_str[100];
15
16     sprintf(myinput_str, "%d", myinput);
17     status = regcomp(&emma, regex_format, REG_EXTENDED);
18     status = regexec(&emma, myinput_str, 20, matches, 0);
19     if(myinput >= 10 && !status)
20         printf("correct\n");
21     else
22         printf("wrong\n");
23
24     return 0;
25 }
26
```

End

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