count digit

Problem statement Send feedback

You are given a number ***'n'***.

Find the number of digits of 'n' that evenly divide 'n'.

Note:

A digit evenly divides 'n' if it leaves no remainder when dividing 'n'.

Example:

Input: 'n' = 336

Output: 3

Explanation:
336 is divisible by both '3' and '6'. Since '3' occurs twice it is counted two times.

question understanding:

- A digit is said to evenly divide **'n'** if, when '**n**' is divided by that **digit**, there is no remainder.

examples:

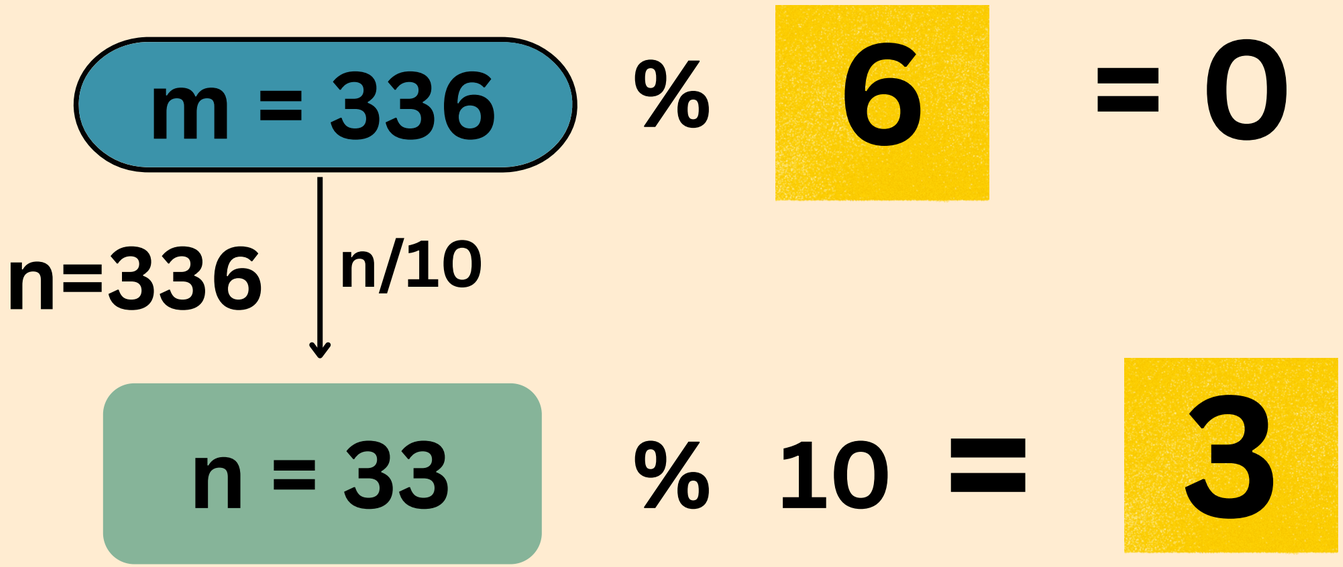
n = 336

- you need to find the digits in 336 that can evenly divide it.

explain:

n = 336 **% 10** **=** **6** ← last_digit

- check if **m % last_digit == 0**, then that is **evenly divide**.



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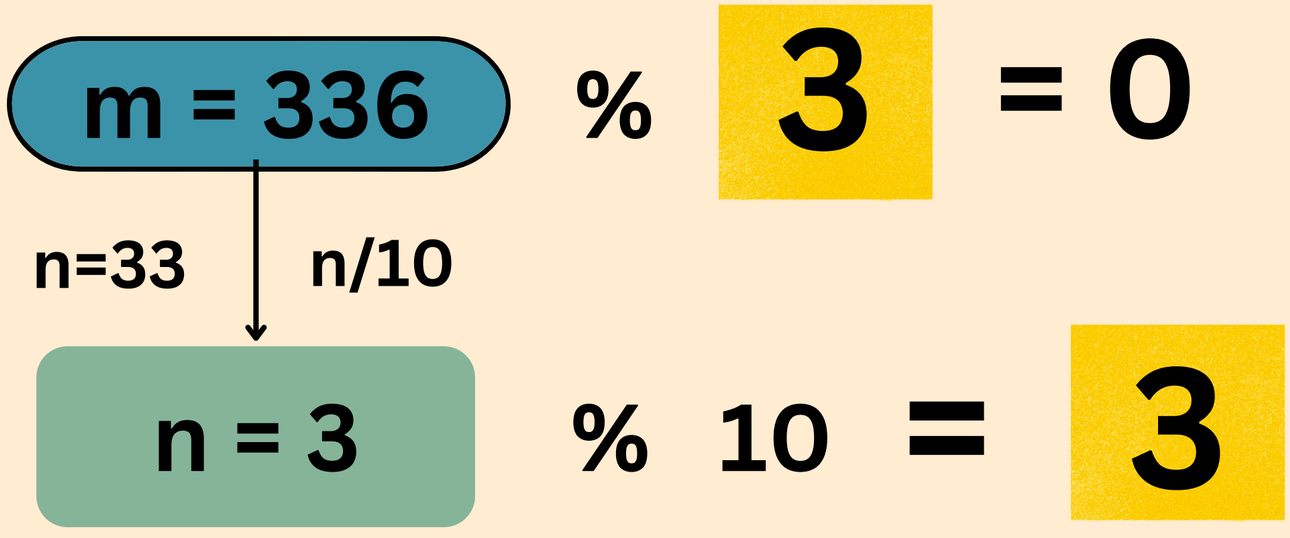

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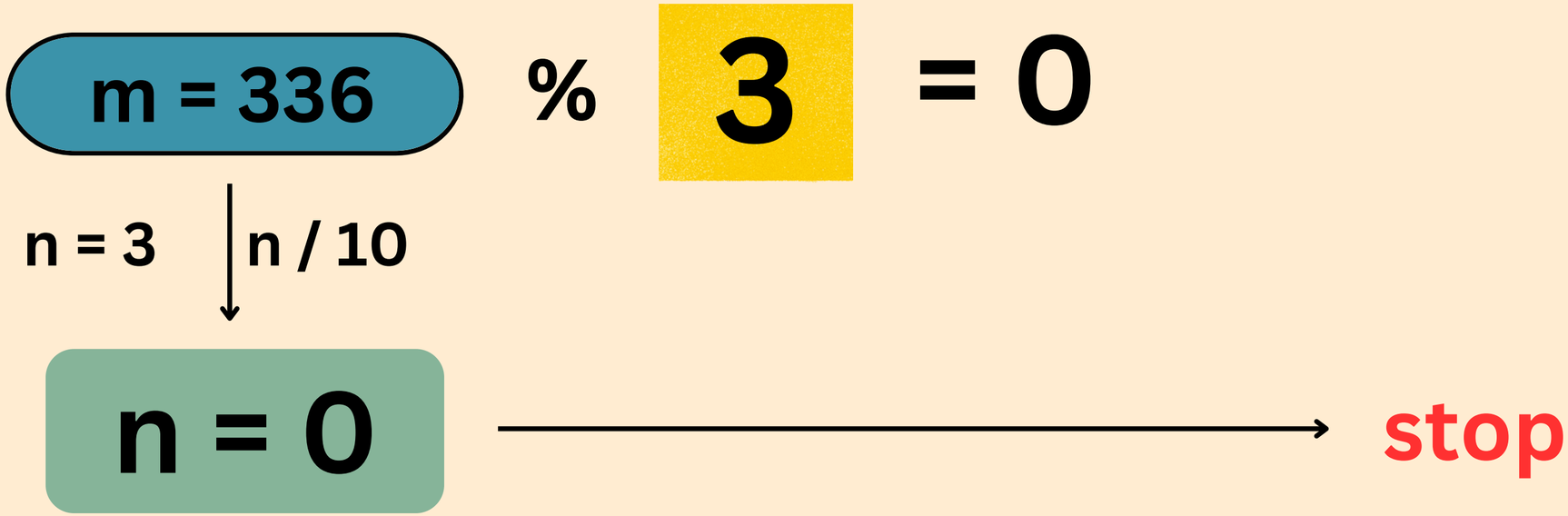
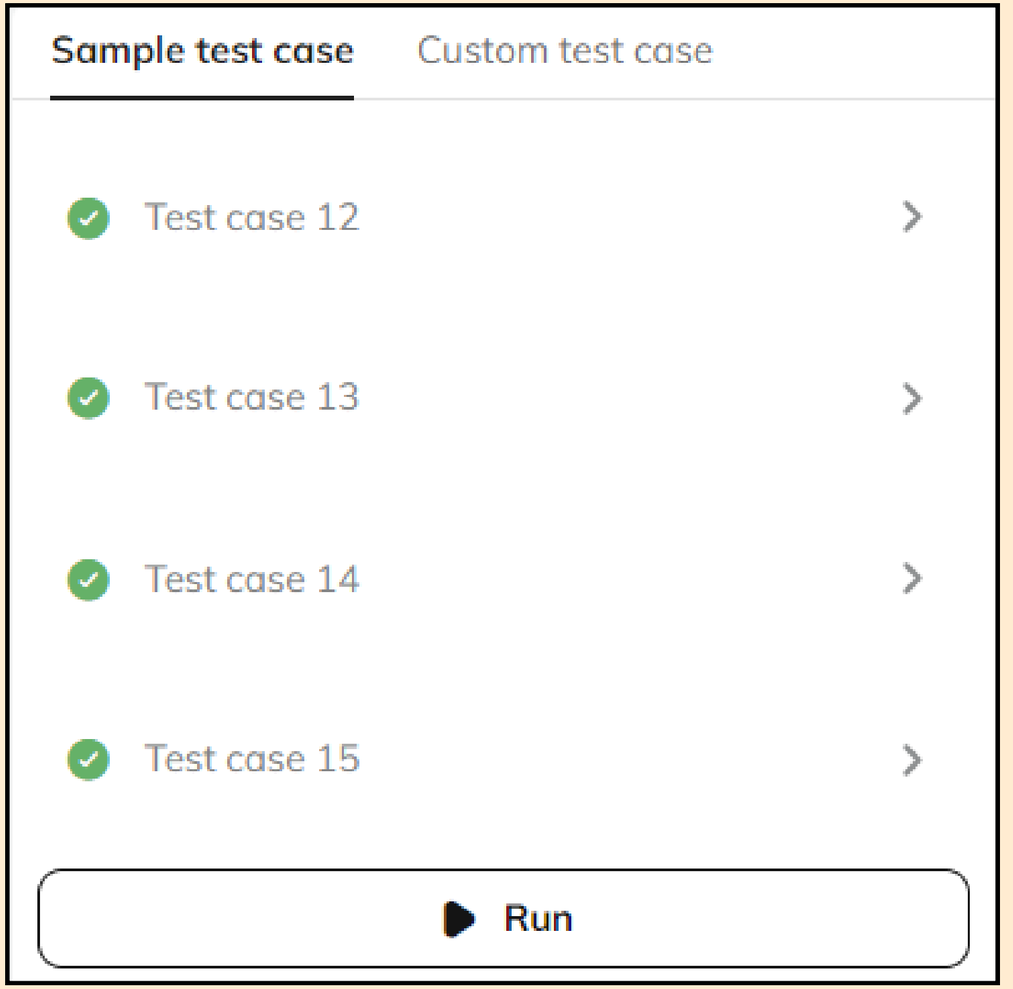


pseudocode:

C++ (g++ 5.4)

```cpp
int countDigits(int n){
    int m = n;

    int cnt = 0;

    while (n) {
        int last_digit = n % 10;

        if (last_digit != 0) {

            if (m % last_digit == 0) {
                cnt++;
            }
        }

        n = n / 10;
    }
    return cnt;
}
```



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