

Chocolate Feast

Problem

Submissions

Leaderboard

Discussions

Editorial

Tutorial

Div Mod

The modulo operation is one of the most primitive things along with arithmetic operations on integers. $a \% n$ or $a \bmod n$ is the remainder when a is divided by n .

if $a \% m == 0$ it means m divides a such that for some multiple k , $a = k \cdot m$

Some of the properties are

$$(a + b) \% n = (a \% n + b \% n) \% n$$

$$(a \times b) \% n = (a \% n \times b \% n) \% n$$

This operation is very useful when computation involves very large numbers and to check correctness we usually perform computation under modulo operation, hence keeping variables in standard integer size limits.

Modulo operation is also useful in the following:

- Chinese Remainder Theorem
- Fast Modulo exponentiation
- Inverse modulo operation

Related challenge for Div Mod

Find Digits



Success Rate: 96.31% Max Score: 25 Difficulty:

Solve Challenge