UCF Local Contest (Final Round) — August 31, 2024

Christmas Tree Adapter

filename: `adapter`
Difficulty Level: `Easy`
Time Limit: `5 seconds`

Adapters (Transformers) are used with many devices (e.g., cell phones) to convert the 110 volt coming out of the outlet. The adapter for Dr. Orooji's Christmas Tree broke and Dr. O could not find that model online or in stores. The tree adapter was showing the "ampere" but the adapters online were showing "watt" and "volt"! So, Dr. O had to refer to the "Electricity 101 Book" to figure out what to buy:

> Watt: measure of power
> Volt: measure of electric potential
> Ampere: measure of current
>
> watt = ampere × volt → ampere = watt / volt

The Problem:

Given the ampere for Dr. O's Christmas tree, and the watt and volt for a candidate adapter, determine if the candidate adapter will work with the tree. The adapter will work if its ampere is greater than or equal to the tree's ampere.

The Input:

The first input line contains an integer, a ($1 \le a \le 20$), indicating the ampere for the Christmas tree. The second input line contains two integers: w ($1 \le w \le 2000$), indicating the watt for the candidate adapter and v ($1 \le v \le 100$), indicating the volt for the candidate adapter. Assume that the input will not result in fractions in divisions.

The Output:

Print 1 if the candidate adapter will work with the tree, 0 (zero) otherwise.

Sample Input	Sample Output
5 60 10	1
7 80 20	0
3 120 40	1