BACK growingPlant

V

DESCRIPTION

SOLUTIONS 5912

COMMENTS 32

REAL

CODEWRITING

SCORE: 300/300

Each day a plant is growing by upSpeed meters. Each night that plant's height decreases by downSpeed meters due to the lack of sun heat. Initially, plant is 0 meters tall. We plant the seed at the beginning of a day. We want to know when the height of the plant will reach a certain level.

Example

For upSpeed = 100, downSpeed = 10 and desiredHeight = 910, the output should be growingPlant(upSpeed, downSpeed, desiredHeight) = 10.

Input/Output

- [execution time limit] 4 seconds (js)
- [input] integer upSpeed

A positive integer representing the daily growth.

Guaranteed constraints:

 $3 \le upSpeed \le 100$.

• [input] integer downSpeed

A positive integer representing the nightly decline.

Guaranteed constraints:

2 ≤ downSpeed < upSpeed.

• [input] integer desiredHeight

A positive integer representing the threshold.

Guaranteed constraints:

4 ≤ desiredHeight ≤ 1000.

· [output] integer

The number of days that it will take for the plant to reach/pass desiredHeight (including the last day in the total count).

[JavaScript (ES6)] Syntax Tips





