Problem J. Snail

A snail crawls on a vertical pole **h** meters high, rising **a** meters in a day, and descending **b** meters during a night. On what day will the snail crawl to the top of the pole?

Input data

The program receives natural numbers h, a, b as input.

Output

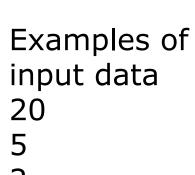
The program should output one natural number. It is guaranteed that a> b.

Examples of input data 10 3

$$(20-5+(5-2) -1)/(5-2) + 1= 5 + 1=6$$

$$(21-5+(5-2) -1)/(5-2) + 1 = 6 + 1 = 7$$

output 8



int a, b, h, c = 0; // h = height of pole, a = rising per day, b = descending at night, c what day on top of pole

output

$$c = ((h - a) + (a - b) -1) / (a - b) + 1;$$
 // +1 acts as buffer for extra day

output

