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
2

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

output
8

Examples of input data
21
5
2

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

output
7

Examples of input data
20
5
2

output
6

```
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

std::cin >> h >> a >> b;

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

std::cout << c << std::endl;
```