Climbing Worm

A worm is at the bottom of a pole. It wants to reach the top, but it is too lazy to climb to the top without stopping. It can crawl up the pole a certain number of inches at a time, falling down a lesser number of inches right after while it rests. How many times does the worm need to crawl up in order to reach the top of the pole?
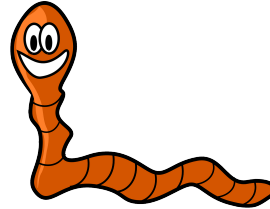
Source: Pixabay

Input

The input consists of a single line that contains three integers a, b ($0 \le b < a \le 100$), and h, ($0 < h \le 100\,000$) indicating the amount a of inches the worm can climb at a time, the amount b of inches the worm falls during its resting period, and the height h of the pole, respectively. For the purposes of this problem, the worm is modeled as a point and thus has no length.

Output

Output the number of times the worm must crawl up in order to reach the top of the pole.

Sample Input 1

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5 0 15
```

Sample Output 1

```
3
```

Sample Input 2

```
3 1 4
```

Sample Output 2

```
2
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