Snail

There is a snail on the ground. It wants to climb to the top of a wooden pole with the height of V meters, measuring from the ground level. In one day it can climb A meters upwards, however during each night it sleeps, sliding B meters back down. Determine the number of days it needs to climb to the top.

Input

The first and only line of input contains three integers separated by a single space: A, B, and V ($1 \le B < A \le V \le 1\,000\,000\,000$), with meanings described above.

Output

The first and only line of output must contain the number of days that the snail needs to reach the top.

Sample input	Sample output
2 1 5	4
5 1 6	2
100 99 1000000000	999999901