SNAIL

There is a snail on the ground. It wants to climb to the top of a wooden pillar with a height of V meters from the ground. In a day, it can climb up A meters. However, every night it sleeps and drops B meters. Determine the number of days needed for a snail to reach the top.

Input

Three integers separated by spaces: A, B and V ($1 \leq B < A \leq V \leq 1\,000\,000\,000$).

Output

A single integer is the number of days

Example

Input:
2 1 5

Output:
4

Input:
5 1 6

Output:
2

Input:
100 99 1000000000

Output:
999999901