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** ($1 \leq \mathbf{B} < \mathbf{A} \leq \mathbf{V} \leq 1\,000\,000\,000$), 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 TESTS

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