Find the number of days it takes a snail to reach the top.

A snail is climbing a post of height H. Every day it climbs d meters up. Then at night it sleeps, slowly slipping n meters down.

Your task is to calculate the number of days snail needs to climb onto the post.

**Example**:

For H = 30, d = 20, n = 10 the answer is 2.  
Here snail will climb 20 meters during the day, then-10 at night, slipping back to 10 meters height, then by the end of the next day it will reach the top. Thus, the answer is 2.

For H = 10, d = 12, n = 5 the answer is 1.  
Here snail will be able to do it during the first day. Thus, the answer is 1.

For H = 0, d = 2, n = 1 the answer is 0.  
Here snail is already on top of the post before day 1. Thus, the answer is 0.

* **[input] integer H**
  + Post height 0 ≤ H ≤ 1000
* **[input] integer d**
  + The distance travelled up during the day  1 ≤ d ≤ 100.
* **[input] integer n**
  + The distance slipped down during the night 0 ≤ n < d.
* **[output] integer**
  + The answer to the task.

<https://codefights.com/challenge/SgYYjPsQSFxXoMAN9>

--ACEPTADO--

int snail\_trip(int H, int d, int n) {

int cont = 0;

int total = 0;

while(total < H){

cont++;

total += d;

if(total >= H) return cont;

total -= n;

}

return cont;

}