Time Limit: 1000ms
Memory Limit: 256MB

A - The Tortoise and the Hare

Submissions Submit

After being frustrated by losing against the tortoise in every race, the hare challenged the tortoise to an eating contest, the tortoise decided to cheat and gather his friends to help him in the contest, he plans to eat as much as he can, then swap with his other tortoise friend, his friend will also eat as much as he can, then he will swap with another friend and so on, until all of his friends took a turn eating.

If the hare can eat h kg of food and a single tortoise can eat t kg of food, how many friends does the tortoise need to get in order for them to eat more than the hare?

Input

A single line containing $h, t (1 \leq h, t \leq 100)$, the amount of food the hare can eat and the amount of food a single tortoise can eat.

Output

Print a single line containing the amount of friends the tortoise needs to get in order to eat more than the hare

Notes

In the first example, a single tortoise can eat 2 kg of food, if he brings 2 other tortoise with him, overall they will be able to eat 6 kg of food, which is more than the hare can eat.

Samples

Input	Output
4 2	2
4 3	1