

A. Contests

You are preparing a set of contests for a programming camp. You have N problems. You hold one contest every day. For each contest you pick K problems, which were not used for any of the previous contests. If there are less than K problems left, you pick all of them for the last contest. When no problems left, the camp is over. Calculate how many days the camp will last.

Input

The only line of input contains two numbers: N and K .

Output

Print number of days the camp will last.

Sample Input

7 3

Sample Output

3