

## 10346 Peter's Smokes (Edited)

Peter has  $n$  cigarettes. He smokes them one by one keeping all the butts. Out of  $k > 1$  butts he can roll a new cigarette.

How many cigarettes can Peter have?

### Input

Input is a sequence of lines. In a line contain one integer number  $n$ , and the next line contain one integer number  $k$ .

### Output

For each input, output one integer number giving the maximum number of cigarettes that Peter can have.

### Sample Input 1

4  
3

### Sample Output 1

5

### Sample Input 2

10  
3

### Sample Output 2

14

### Sample Input 3

100  
5

### Sample Output 3

124