12. [Programming] Chocolates

A chocolate store is running a promotion, where they give out 1 free chocolate for every M chocolate wrappers that a customer brings in. You have a chocolate budget of N dollars, and each chocolate costs C dollars. What is the maximum number of chocolates you can get from this store?

For example, if $N = 4$, $C = 1$ and $M = 2$, you could do the following:

1. First buy 4 chocolates for $1 each.

2. Then you could return those 4 wrappers for 2 free chocolates

3. Finally return those 2 wrappers for 1 chocolate.

At this point you'd have only 1 wrapper left, but you have enjoyed *4+2+1=7* chocolates.

Your task: You're given three numbers i.e. the values of N, C and M on a single line of Standard Input, each separated by a single space. Calculate the maximum number of chocolates you can get from the store and print it to Standard Output.

Example

Input
4 1 2

Output
7

Assumptions

- $1 \leq C \leq N$

- $2 \leq M \leq N$

ⓘ Info | Python 3 ▾ | ⧗ Autocomplete Loading... ⓘ

```
1    # Enter your code here. Read input from STDIN. Print output to STDOUT
```