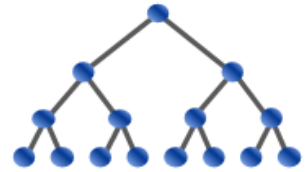


USA Computing Olympiad

[OVERVIEW](#)[TRAINING](#)[CONTESTS](#)[HISTORY](#)[STAFF](#)[RESOURCES](#)

USACO 2016 FEBRUARY CONTEST, BRONZE PROBLEM 1. MILK PAILS

[Return to Problem List](#)

Contest has ended.

[Log in to allow submissions in analysis mode](#)

English (en) ▼

Farmer John has received an order for exactly M units of milk ($1 \leq M \leq 1,000$) that he needs to fill right away. Unfortunately, his fancy milking machine has just become broken, and all he has are three milk pails of integer sizes X , Y , and M ($1 \leq X < Y < M$). All three pails are initially empty. Using these three pails, he can perform any number of the following two types of operations:

- He can fill the smallest pail (of size X) completely to the top with X units of milk and pour it into the size- M pail, as long as this will not cause the size- M pail to overflow.
- He can fill the medium-sized pail (of size Y) completely to the top with Y units of milk and pour it into the size- M pail, as long as this will not cause the size- M pail to overflow.

Although FJ realizes he may not be able to completely fill the size- M pail, please help him determine the maximum amount of milk he can possibly add to this pail.

INPUT FORMAT (file pails.in):

The first, and only line of input, contains X , Y , and M , separated by spaces.

OUTPUT FORMAT (file pails.out):

Output the maximum amount of milk FJ can possibly add to the size- M pail.

SAMPLE INPUT:

```
17 25 77
```

SAMPLE OUTPUT:

```
76
```

In this example, FJ fills the pail of size 17 three times and the pail of size 25 once, accumulating a total of 76 units of milk.

Problem credits: Brian Dean

Contest has ended. No further submissions allowed.