The government wants people to recycle their used items rather than simply throw them away for environmental protection. To encourage such behavior, government sponsors a new policy of getting one more items for free by recycling m items. That is, you can get more items if you recycle all the purchased items. Now write a program to help the calculation of the number of items we can use by given the budget b, the price of each item p, and the value of m for getting new items.

## **Input**

The input has several cases and ends with EOF. Each case contains three integers, which in turn denote the budget b, the price p, and the value m.

## Output

For each case, output the maximum number of items we can get. Each case should be in a separate line.

## **Sample Input**

100 20 2

500 40 5

1000 50 8

## **Sample Output**

9

14

22