# **Chocolate Feast**

Little Bob loves chocolate, and he goes to a store with \$N in his pocket. The price of each chocolate is \$C. The store offers a discount: for every M wrappers he gives to the store, he gets one chocolate for free. How many chocolates does Bob get to eat?

## **Input Format:**

The first line contains the number of test cases, T.

T lines follow, each of which contains three integers, N, C, and M.

## **Output Format:**

Print the total number of chocolates Bob eats.

### **Constraints:**

```
1 \le T \le 1000
```

$$2 \le N \le 10^5$$

$$1 \le C \le N$$

$$2 \le M \le N$$

## Sample input

```
3
10 2 5
12 4 4
6 2 2
```

## **Sample Output**

```
6
3
5
```

#### **Explanation**

In the first case, he can buy 5 chocolates with |\$10 and exchange the 5 wrappers to get one more chocolate. Thus, the total number of chocolates is 6.

In the second case, he can buy 3 chocolates for |\$12. However, it takes 4 wrappers to get one more chocolate. He can't avail the offer and hence the total number of chocolates remains 3.

In the third case, he can buy 3 chocolates for |\$6. Now he can exchange 2 of the 3 wrappers and get 1 additional piece of chocolate. Now he can use his 1 unused wrapper and the 1 wrapper of the new piece of chocolate to get one more piece of chocolate. So the total is 5.