



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 Mwrappers 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:

 $1 \leq T \leq 1000$

 $2 \le N \le 10^5$ $1 \le C \le N$

 $2 \leq M \leq N$

Sample input

10 2 5 12 4 4

Sample Output

6

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.

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```
1 ▼import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5 import java.util.regex.*;
7 ▼public class Solution {
8
9 ▼
        public static void main(String[] args) {
10
           Scanner in = new Scanner(System.in);
            int t = in.nextInt();
11
12 ▼
            for(int a0 = 0; a0 < t; a0++) {
               int n = in.nextInt();
int c = in.nextInt();
13
14
                int m = in.nextInt();
15
16
            }
17
        }
18 }
19
                                                                                                                        Line: 1 Col: 1
1 Upload Code as File
                      ☐ Test against custom input
                                                                                                             Run Code
                                                                                                                         Submit Code
```

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