# CCC '25 J2 - Donut Shop

**Time limit:** 1.0s **Memory limit:** 256M

#### Canadian Computing Competition: 2025 Stage 1, Junior #2

The owner of a donut shop spends the day baking and selling donuts.

Given the events that happen over the course of the day, your job is to determine the number of donuts remaining when the shop closes.

#### **Input Specification**

The first line of input contains a non-negative integer, D, representing the number of donuts available when the shop first opens.

The second line contains a positive integer, E, representing the number of events that happen over the course of the day. The next E pairs of input lines describe these events.

The first line in the pair contains either the + (plus) symbol, indicating that donuts have been baked, or the - (minus) symbol, indicating that donuts have been sold. The second line in the pair contains a positive integer, Q, representing the quantity of donuts associated with the event.

For each sale of donuts, the value of Q will be less than or equal to the number of donuts available at that time.

#### **Output Specification**

Output the non-negative integer, R, which is the number of donuts remaining when the shop closes.

#### **Sample Input**

10			
10			
3			
+			
24			
-			
6			
O			
_			
12			

### **Sample Output**

## **Explanation for Sample Output**

The shop opened with 10 donuts and there were 3 events during the day. The owner first baked 24 donuts. Then the owner sold 6 donuts, followed by another 12. The number of donuts remaining is 10 + 24 - 6 - 12 = 16.