

B. Sharapova And Her Pocket Money

time limit per test: 2 seconds
 memory limit per test: 64 megabytes
 input: standard input
 output: standard output

Sharapova has a pocket money which there are D dollars inside initially. Every day, she does one of the following operations.

-> Put X dollars inside the pocket money

-> Take Y dollars from the pocket money

In the second operation. If there isn't enough money to take, she won't take any thing.

Given what operation she will do in the N next days and D (The initial amount of money). You are asked to answer with the final amount of money in the pocket after the the N days.

Input

In the first line, You are given N and D ($1 \leq N \leq 10^5$), ($0 \leq D \leq 10^5$). N is the number of days and D the initial amount of money.

In the next N line you are given which operation she will do in the following format.

-> "+ X " if she will do the first operation. ($0 \leq X \leq 10^5$)

-> "- Y " if she will do the second operation. ($0 \leq Y \leq 10^5$)

Output

In a single line, print the final amount of money inside the pocket money.

Examples

input	Copy
3 5 + 2 - 5 - 2	
output	Copy
0	

input	Copy
2 0 + 2 + 4	
output	Copy
6	

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Finished

Practice



→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Submit?

Language: GNU G++20 11.2.0 (64 bit, w)