## Problem G Plus or Times

Adrian is playing a game. When the game starts, Adrian will be given $P$ points as his initial points. The game consists of $N$ rounds, numbered from 1 to $N$. During round $i$, Adrian has two options. Each option can be one of the following types:

- $+c(-1000 \leq c \leq 1000)$ which will add his current points by $c$, or
- $\mathrm{X} c(-2 \leq c \leq 2)$ which will multiply his current points by $c$.

Adrian wants to maximize his points at the end of the game. Help Adrian to determine the maximum points he can achieve after completing all $N$ rounds!

## Input

Input begins with two integers $N P(1 \leq N \leq 50 ;-1000 \leq P \leq 1000)$ representing the number of rounds and the initial points during the game, respectively. Each of the next $N$ lines contains the two options in each round separated by a space. Each option is given in the format $T c(T \in\{+, \mathbf{x}\} ;-1000 \leq c \leq 1000$ if $T=+$, or $-2 \leq c \leq 2$ if $T=\mathrm{x}$ ).

## Output

Output an integer in a single line representing the maximum points Adrian can achieve at the end of the game.

## Sample Input \#1

```
3 123
+ 100 x 2
+ -100 x -2
+ 0 + 0
```


## Sample Output \#1

## Explanation for the sample input/output \#1

Adrian can choose the second option in round 1 , first option in round 2 , and any option in round 3 .
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## Sample Input \#2

```
3123
+ 100 x 2
+ -100 x -2
x 0 x 0
```


## Sample Output \#2

```
0
```

Explanation for the sample input/output \#2
Adrian will always achieve 0 points regardless of his decision in each round, because round 3 will multiply his points by 0 .

