Simple Language



You are given a program written on Simple Language. There's only one variable called x in this programming language. Initially, x = 0. The program consists of n lines. Each line is one of the following:

- add y (y is an integer) add y to x.
- **set** y (y is an integer) set the value of x to y.

Here's an example program and also illustrates what happens to \boldsymbol{x} after running each line:

```
x = 0
add 5
x = 5
add -3
x = 2
set 1
x = 1
add -2
x = -1
add 5
x = 4
```

Given a program, your task is to remove some lines (possibly none or all of them) in such a way that the value of x after running the resulting program will be the maximum. Find this maximum value.

Complete the function $\frac{\text{maximumProgramValue}}{\text{maximum program value}}$ which takes in an integer n denoting the number of lines of the program and returns the maximum value. You will need to take the program's lines from the standard input.

Input Format

The first line contains a single integer n.

The next n lines describe the program. Each of these lines contains a string t and an integer y separated by a space, where t = add or t = set.

Constraints

- $1 \le n \le 2 \cdot 10^5$
- $-10^9 \le y \le 10^9$

Output Format

Print a single integer denoting the answer.

Sample Input 0

```
3
add 2
set 1
add -1
```

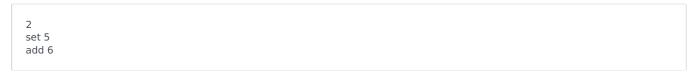
Sample Output 0

```
2
```

Explanation 0

In this test case, the second and third lines of code are removed.

Sample Input 1



Sample Output 1

11

Explanation 1

In this test case, no line of code is removed.

Sample Input 2

```
3
add -1
set -3
add -2
```

Sample Output 2

0

Explanation 2

In this test case, all lines of code are removed.