## Problem D. IQ Test

| Input file: | stdin |
| :--- | :--- |
| Output file: | stdout |
| Time limit: | 1 second |
| Memory limit: | 512 megabytes |

As a truly clever guy, bobo has never entered any kind of IQ tests. But here comes one.
The test consists of $n$ questions, which are numbered conveniently by $1,2, \ldots, n$. Each question has two options - namely options "A" and "B". The $i$-th question is "How many questions among questions $1,2, \ldots,(i-1)$ are answered by option $t_{i}$ ?". ( $t_{i}$ is either " A " or " B ".) Option " A " says there are $x_{i}$ questions while option "B" says $y_{i}$.
bobo soon notices that the test is poorly-designed, so he wonder how many questions he can answer correctly at most.

## Input

The first line contains an integer $n(1 \leq n \leq 200000)$.
Each of the following $n$ lines contains a character $t_{i}$ and 2 integers $x_{i}, y_{i}\left(t_{i} \in\{A, B\}, 0 \leq x_{i}, y_{i} \leq n\right)$.

## Output

A single integer denotes the maximum number of questions he can answer correctly.

## Sample input and output

|  | stdin |  |  |
| :--- | :--- | :--- | :--- |
| 2 |  | 2 | stdout |
| A | 0 | 1 |  |
| B | 0 | 1 | 1 |
| 2 |  |  |  |
| A | 1 | 2 |  |
| B | 0 | 1 |  |

