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Shoe Pairs

Time limit: 1280 ms
Memory limit: 136 MB

You have N shoes, for each of them you know its size and whether it's a left or a right shoe.

Any left shoe can be paired with any right shoe of the same size. What's the maximum number of pairs you can make?

Standard input

The first line contains a single integer N .

Each of the next N lines describes one shoe. The line contains an integer, representing the size of the shoe, followed by a character: **L** in the case of a left shoe, or **R** in the case of a right shoe.

Standard output

Print a single integer representing the maximum number of shoe pairs.

Constraints and notes

- $1 \leq N \leq 1000$
- The shoe sizes are integers between 1 and 100

Input	Output	Explanation
5 1 L 1 L 3 R 3 L 1 R	2	We can make one pair of size 1 and one of size 3
4 2 L 2 L 2 L 3 R	0	We cannot make a pair using two left shoes.
6 1 L 2 R 2 L 2 L 1 R	2	We can make one pair of size 1 and one of size 2