# COCI '12 Contest 4 #2 Esej

#### Time limit: 1.0s Memory limit: 32M

Mirko's latest homework assignment is writing an essay. However, he finds writing essays so boring that, after working for two hours, he realized that all he has written are N long words consisting entirely of letters A and B. Having accepted that he will never finish the essay in time, poor Mirko has decided to at least have some fun with it by counting **nice** words.

Mirko is connecting pairs of **identical** letters (A with A, B with B) by drawing arches **above** the word. A given word is nice if each letter can be connected to exactly one other letter in such a way that no two arches intersect. Help Mirko count how many words are nice.

#### **Input Specification**

The first line of input contains the positive integer N ( $1 \le N \le 100$ ), the number of words written down by Mirko.

Each of the following N lines contains a single word consisting of letters A and B, with length between 2 and 100 000, inclusive. The sum of lengths of all words doesn't exceed 1 000 000.

### **Output Specification**

The first and only line of output must contain the number of nice words.

#### Sample Input 1

3 ABAB AABB ABBA

#### Sample Output 1

2

#### Sample Input 2

3			
AAA			
AA			
AB			

## Sample Output 2

1

### Sample Input 3

1 ABBABB

### Sample Output 3

1