ADAlab Online Judge

♠ Home

Problems



-/⊷ Status

■ Ranbx101109107 ▼

- About ∨
 - ']'. A string S is said to be *correct* if:
 - 1. S is the empty string
 - 2. A and B are correct, S=AB
 - 3. A is correct, S=(A) or S=[A]

Judge each of n string is correct or not. If yes, print a line "Y". Otherwise, print a line "N".

Input

The first line contains an integer n — the total number of string you have to judge it is $\it correct$ or not.

Each of the following n lines contains a string S_i .

Restrictions

- $1 < n < 10^3$
- $1 \leq |S_i| \leq 10^4$ for $i=1,2,\cdots,n$
- ullet For testcase 1, $1 \leq n \leq 10, 1 \leq |S_i| \leq 10^2$

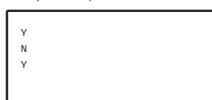
Output

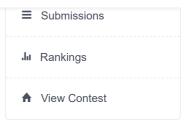
For each string, output one line following problem description.

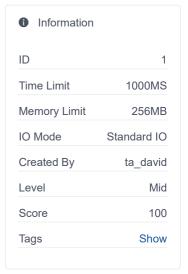
Sample Input 1 🖹

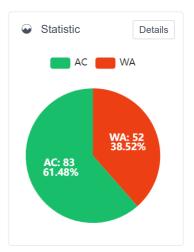
3 ([][]) ([[([])]] ()[()()[]]

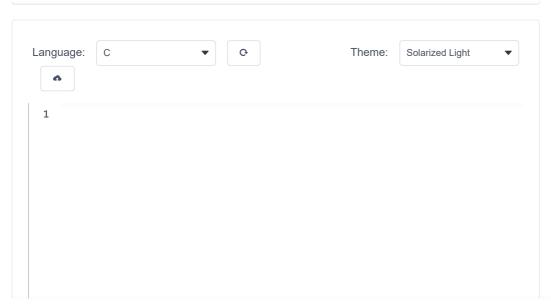
Sample Output 1

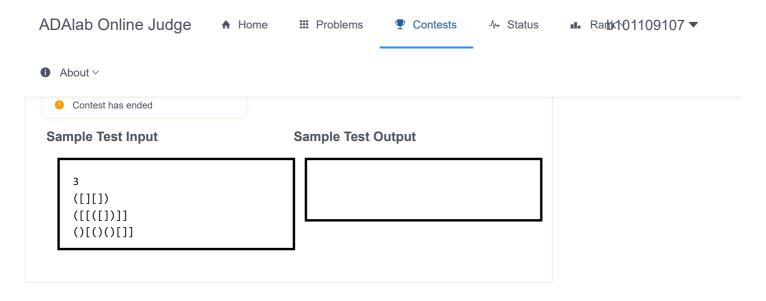












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