



(/en/),
v1.1.0

CSD Testing System

(/en/)

Find regular bracket subsequences, ignoring any other characters

Cost: 8 | Solved: 40

Memory limit: 256 MBs

Time limit: 1 s

Input: input.txt

Output: output.txt

Task:

You are given a set of strings separated with line feed characters.

Find all their regular bracket subsequences.

A regular bracket sequence is a bracket sequence defined by the following rules:

- 1) ϵ (an empty string) is a regular bracket sequence;
- 2) Let S be a regular bracket sequence, then (S) and $\{S\}$ are also regular bracket sequences;
- 3) Let $S1$ and $S2$ be regular bracket sequences, then $S1S2$ is also a regular bracket sequence;

Now the strings can contain some other characters besides curly and round brackets, but the regular bracket subsequences *can not* start or end with them.

Input:

A set of strings separated with line feed characters.

Output:

All the longest correct substrings in the order in which they appear in the text, separating each with a line feed character.

Example:

Input	Output
((())) {a(b)c}	((())) {a(b)c}