

Bangladesh Artificial
Intelligence Olympiad
(Preliminary)

2:05:55

 Dashboard

☒ A. Welcome to Bang...

☐ B. Take Angle, Giv...

☐ C. Odd Subset XOR

☒ D. Can you predict...


☐ E. Cycle of life

☐ F. Lost in bracket...

☒ G. Sum in summer

☐ H. I think, theref...

© 2024 Toph | Furqan Software

 Announcements

 Clarifications

 Standings

 Submissions

 Resources

F. Lost in brackets

Limits 1s, 512 MB

Given a string consisting of parentheses (and) and lowercase English letters, determine if the sequence of parentheses is balanced and if the characters between any pair of balanced parentheses are unique. Everything out of all the parentheses will be considered in the global parentheses.

Input

- An integer T will be in the input. $1 < T < 1000$
- T lines containing the string which may include characters from (,), and lowercase English letters a to z.

Output

- Print **YES** if the parentheses in the string are balanced and the characters between any pair of balanced parentheses are unique. Otherwise, print **NO**.
- All results will be in separate lines.

Sample

Input	Output
8	YES
(a(b)c(d)e)f	YES
(a(b(c)d)e)f	NO
(a(bcc)d)ef	NO
fa(b(cd)e)f	NO
(a(bc)(d(e)f	YES
((a)b)cde	YES
()()	NO
)	

Submit


Choose a programming language, select your solution file, and click on Submit.

PythonPython 3.12

Choose FileNo fi...osen

Up to 150 kB.

Submit

 Open Editor

Clarifications

Request

No clarifications yet