#!/bin/python3

import math

import os

import random

import re

import sys

# Complete the isBalanced function below.

def isBalanced(s):

compList = list(s)

if len(compList) % 2 != 0:

return "NO"

openStack = []

openList = ["{", "[", "("]

for checkElement in compList:

if checkElement in openList:

openStack.append(checkElement)

else:

if len(openStack) == 0:

return "NO"

stackChecker = openStack.pop()

if checkElement == "}" and stackChecker != "{":

return "NO"

if checkElement == "]" and stackChecker != "[":

return "NO"

if checkElement == ")" and stackChecker != "(":

return "NO"

if len(openStack) == 0:

return "YES"

else:

return "NO"

if \_\_name\_\_ == '\_\_main\_\_':

fptr = open(os.environ['OUTPUT\_PATH'], 'w')

t = int(input())

for t\_itr in range(t):

s = input()

result = isBalanced(s)

fptr.write(result + '\n')

fptr.close()