

Q1 - Balanced bracket set

There are three kinds of bracket pairs, (), [], {}.

A set of the brackets is considered balanced if

(1) all the brackets in the set can be paired, and

(2) any subset of the bracket pair is a balanced bracket set.

For example, {}{()}[] is balanced, and ([()]) is not balanced.

Please use stack to examine if the bracket set is balanced.

Input Format

The first line contains an integer n , representing the number of strings. $1 \leq n \leq 5$. Each of the next lines contains a string of a bracket set.

Constraints

Use stack to implement.

Output Format

Print the evaluation of the string of a bracket set. Print "yes" if the bracket set is balanced, print "no" otherwise.

Sample Input 0

```
3
[] {} ({} )
( ) ( )
( ( { } ) )
```

Sample Output 0

```
yes
yes
no
```