Q: **A bracket is considered to be following of the characters** '(', ')', '[', ']', '{], '}'.
Two brackets are considered to be a matched pair if the an opening bracket
(**i.e.**, (, [, **or** {) **occurs to the left of a closing bracket** (**i.e.**,),], **or** }) **of the exact same type**. **There are three types of matched pairs of brackets**: [ ], { }, **and** ( ).
A matching pair of brackets is not balanced if the set of brackets it encloses are not matched.

For example, { [( ]) } **is not balanced because the contents in**
between { **and** } **are not balanced**. **The pair of square brackets encloses a single**, **unbalanced opening bracket**, (, **and the pair of parentheses encloses a single**, **unbalanced closing square bracket**,].
By this logic, **we say a sequence of brackets is balanced if the following conditions are met**:

1. **It contains no unmatched brackets**.
2. **The subset of brackets enclosed within the confines of a matched pair of brackets is also a matched pair of brackets**.

Given n string of rackets, **determine whether each sequence of brackets is balanced**. **If string is balanced**, **return YES**, **otherwise return NO**.

EXAMPLE:

Input:
2
[({ })]
{ ( ] }

Output:
YES
NO