Balanced Parenthesis

A bracket is considered to be any one of the following characters: (, ), {, }, [, or ].

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 considered to be balanced if the following conditions are met:

It contains no unmatched brackets.

The subset of brackets enclosed within the confines of a matched pair of brackets is also a matched

pair of brackets.

Write isMatching method to determine given Parenthesis String is matching or not. If matching return a string “YES”, Else return string “NO”.

**Sample Input #1:**

**{[()]}**

**Sample Input #2:**

**{[(])}**

**Sample Input #3:**

**{{[[(())]]}}**

**Sample Output #1:**

**YES**

**Sample Output #2:  
NO**

**Sample Output #3:  
YES**