Given a string **s**containing just the characters **'(', ')', '[', ']', '{', and '}'**. Check if the input string is valid based on following rules:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.

For example:

* String **"[]()"** is a valid string, also **"[()]".**
* String "**[])**" is **not** a valid string.

Your task is to implement the function

bool isValidParentheses (string s){  
    /\*TODO\*/  
}

**For example:**

| **Test** | **Result** |
| --- | --- |
| cout << isValidParentheses("[]"); | 1 |
| cout << isValidParentheses("[]()"); | 1 |
| cout << isValidParentheses("[)"); | 0 |