A balanced delimiter starts with an opening character ((, [, {), ends with a matching closing character (),], } respectively), and has only other matching delimiters in between. A balanced delimiter may contain any number of balanced delimiters.

Examples
The following are examples of balanced delimiter strings:

()[]{}
([{}])
([]{})
The following are examples of invalid strings:
([)]
([]
[])
([})
Input is provided as a single string. Your output should be True or False according to whether the string is balanced. For example:

Input:
([{}])
Output:
True

```
def is_balanced(input_str):
    stack = []
    opening_chars = "([{"
    closing_chars = ")]}"

    for char in input_str:
        if char in opening_chars:
            stack.append(char)
        elif char in closing_chars:
            if not stack:
                return False
            if opening_chars.index(stack.pop()) != closing_chars.index(char):
                return False
    return not stack

input_str = input("Enter a string of delimiters: ")
result = is_balanced (input_str)
print(result)
```

OUTPUT

Enter a string of delimiters: ()[]{}

```
True

Enter a string of delimiters: {([])}
True

Enter a string of delimiters: ({}[])}]
False
```

```
def is_balanced(s):
    pairs = {')': '(', ']': '[', '}': '{'}
    stack = []
    for char in s:
        if char in pairs.values():
            stack.append(char)
        elif char in pairs.keys():
            if not stack or pairs[char] != stack.pop():
                return False
    return not stack

print(is_balanced("([{}])"))  # Output: True
```