

Fidelity International Python Developer Hiring Test - Exp...

① 14m to test end

0/4 Attempted

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# **☆** Braces



You are designing a compiler for a C++ program and need to check that braces in any given file are balanced.

Braces in a string are considered to be balanced if the following criteria are met:

- All braces must be closed. Braces come in pairs of the form (), {} and []. The left brace opens the pair, and the right one closes it.
- In any set of nested braces, the braces between any pair must be closed.
- For example, [{}] is a valid grouping of braces but [}]{} is not.

#### **Function Description**

Complete the function *braces* in the editor below. The function must return an array of strings where the string at each index *i* denotes whether or not the braces were balanced in a *values<sub>i</sub>*. The array should consist of strings "YES" or "NO" aligned with their indexes in *values*.

braces has the following parameter(s):

 $values[values_0,...values_{n-1}]$ : an array of strings to analyze

#### **Constraints**

- 1 ≤ *n* ≤ 15
- $1 \le \text{length of } values_i \le 100$
- It is guaranteed that each *values*<sub>i</sub> consists of (, ), {, }, [, and ] only.

**Input Format For Custom Testing** 

Sample Case 0

## **Sample Input For Custom Testing**

2 {}[]() {[}]}

## **Sample Output**

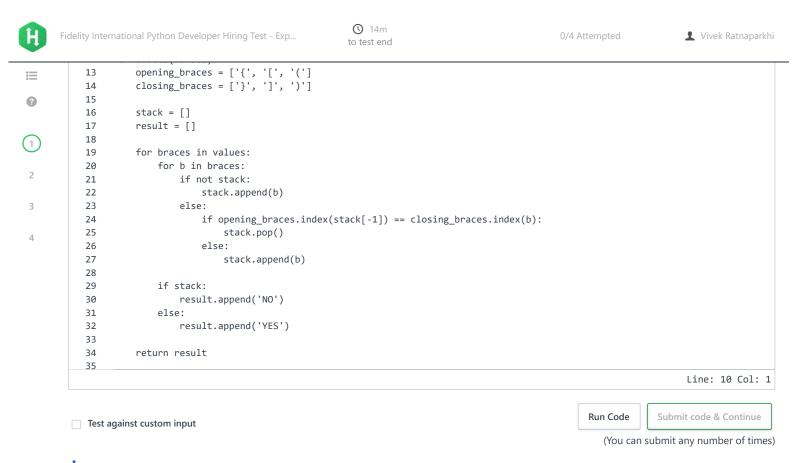
YES NO

#### **Explanation**

values<sub>0</sub>: {{|]() meets the criteria for a balanced string, so index 0 in our return array should contain the string YES.

values<sub>1</sub>: {[}]} contains unmatched braces between a matched pair in the substrings [], {[], and []], so index 1 in our return array should contain the string NO.

## YOUR ANSWER



📩 Download sample test cases 💎 The input/output files have Unix line endings. Do not use Notepad to edit them on windows.

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