



5772. Check if Word Equals Summation of Two Words

[My Submissions \(/contest/weekly-contest-243/problems/check-if-word-equals-summation-of-two-words/submissions/\)](/contest/weekly-contest-243/problems/check-if-word-equals-summation-of-two-words/submissions/)

[Back to Contest \(/contest/weekly-contest-243/\)](/contest/weekly-contest-243/)

The **letter value** of a letter is its position in the alphabet **starting from 0** (i.e. 'a' -> 0, 'b' -> 1, 'c' -> 2, etc.).

The **numerical value** of some string of lowercase English letters *s* is the **concatenation** of the **letter values** of each letter in *s*, which is then **converted** into an integer.

- For example, if *s* = "acb", we concatenate each letter's letter value, resulting in "021". After converting it, we get 21.

You are given three strings *firstWord*, *secondWord*, and *targetWord*, each consisting of lowercase English letters 'a' through 'j' **inclusive**.

Return *true* if the **summation** of the **numerical values** of *firstWord* and *secondWord* equals the **numerical value** of *targetWord*, or *false* otherwise.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Example 1:

Input: *firstWord* = "acb", *secondWord* = "cba", *targetWord* = "cdb"

Output: true

Explanation:

The numerical value of *firstWord* is "acb" -> "021" -> 21.

The numerical value of *secondWord* is "cba" -> "210" -> 210.

The numerical value of *targetWord* is "cdb" -> "231" -> 231.

We return true because 21 + 210 == 231.

Example 2:

Input: *firstWord* = "aaa", *secondWord* = "a", *targetWord* = "aab"

Output: false

Explanation:

The numerical value of *firstWord* is "aaa" -> "000" -> 0.

The numerical value of *secondWord* is "a" -> "0" -> 0.

The numerical value of *targetWord* is "aab" -> "001" -> 1.

We return false because 0 + 0 != 1.

Example 3:

Input: *firstWord* = "aaa", *secondWord* = "a", *targetWord* = "aaaa"

Output: true

Explanation:

The numerical value of *firstWord* is "aaa" -> "000" -> 0.

The numerical value of *secondWord* is "a" -> "0" -> 0.

The numerical value of *targetWord* is "aaaa" -> "0000" -> 0.

We return true because 0 + 0 == 0.

Constraints:

- 1 <= *firstWord*.length, *secondWord*.length, *targetWord*.length <= 8
- firstWord*, *secondWord*, and *targetWord* consist of lowercase English letters from 'a' to 'j' **inclusive**.


Java



```
1 class Solution {  
2     public boolean isSumEqual(String firstWord, String secondWord, String targetWord) {  
3  
4     }  
5 }
```

☐ Custom Testcase[Use Example Testcases](#)[Run](#)[Submit](#)

Copyright © 2021 LeetCode

[Help Center \(/support\)](#) | [Jobs \(/jobs\)](#) | [Bug Bounty \(/bugbounty\)](#) | [Online Interview \(/interview/\)](#) | [Students \(/student\)](#) | [Terms \(/terms\)](#) |[Privacy Policy \(/privacy\)](#) [United States \(/region\)](#)