

Problem 1768: Merge Strings Alternately

Problem Information

Difficulty: Easy

Acceptance Rate: 82.09%

Paid Only: No

Tags: Two Pointers, String

Problem Description

You are given two strings `word1` and `word2`. Merge the strings by adding letters in alternating order, starting with `word1`. If a string is longer than the other, append the additional letters onto the end of the merged string.

Return _the merged string._

Example 1:

Input: word1 = "abc", word2 = "pqr" **Output:** "apbqcr" **Explanation:** The merged string will be merged as so: word1: a b c word2: p q r merged: a p b q c r

Example 2:

Input: word1 = "ab", word2 = "pqrs" **Output:** "apbqrs" **Explanation:** Notice that as word2 is longer, "rs" is appended to the end. word1: a b word2: p q r s merged: a p b q r s

Example 3:

Input: word1 = "abcd", word2 = "pq" **Output:** "apbqcd" **Explanation:** Notice that as word1 is longer, "cd" is appended to the end. word1: a b c d word2: p q merged: a p b q c d

Constraints:

* `1 <= word1.length, word2.length <= 100` * `word1` and `word2` consist of lowercase English letters.

Code Snippets

C++:

```
class Solution {  
public:  
    string mergeAlternately(string word1, string word2) {  
  
    }  
};
```

Java:

```
class Solution {  
    public String mergeAlternately(String word1, String word2) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def mergeAlternately(self, word1: str, word2: str) -> str:
```