

Description

Solution

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Submissions

### 1768. Merge Strings Alternately

Easy

 473

 8

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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 = "pqr"`  
**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.

iJavaAutocomplete


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```
1  class Solution {
2      public String mergeAlternately(String word1, String word2) {
3
4          char[] array1 = word1.toCharArray();
5          char[] array2 = word2.toCharArray();
6
7          int i = 0, j = 0;
8          int k = 0;
9          StringBuilder stringBuilder = new StringBuilder();
10
11         while(i < array1.length && j < array2.length){
12             if(k % 2 == 0){
13                 stringBuilder.append(array1[i++]);
14                 k++;
15             }else{
16                 stringBuilder.append(array2[j++]);
17                 k++;
18             }
19         }
20
21         while(i < array1.length){
22             stringBuilder.append(array1[i++]);
23         }
24
25         while(j < array2.length)
26             stringBuilder.append(array2[j++]);
27
28         return stringBuilder.toString();
29     }
30 }
```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase

Run Code Result

Debugger 

Accepted	Runtime: 0 ms	?
Your input	<div>"abc"</div> <div>"pqr"</div>	
Output	<div>"apbqcr"</div>	<div><input type="checkbox"/> Diff</div>
Expected	<div>"apbqcr"</div>	