

5674. Largest Merge Of Two Strings

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You are given two strings `word1` and `word2` . You want to construct a string `merge` in the following way: while either `word1` or `word2` are non-empty, choose **one** of the following options:

- If `word1` is non-empty, append the **first** character in `word1` to `merge` and delete it from `word1` .
 - For example, if `word1` = "abc" and `merge` = "dv" , then after choosing this operation, `word1` = "bc" and `merge` = "dva" .
- If `word2` is non-empty, append the **first** character in `word2` to `merge` and delete it from `word2` .
 - For example, if `word2` = "abc" and `merge` = "" , then after choosing this operation, `word2` = "bc" and `merge` = "a" .

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

Return the lexicographically **largest** merge you can construct.

A string `a` is lexicographically larger than a string `b` (of the same length) if in the first position where `a` and `b` differ, `a` has a character strictly larger than the corresponding character in `b` . For example, "abcd" is lexicographically larger than "abcc" because the first position they differ is at the fourth character, and `d` is greater than `c` .

Example 1:

Input: word1 = "cabaa", word2 = "bcaaa"
Output: "cbcabaaaaa"
Explanation: One way to get the lexicographically largest merge is:
- Take from word1: merge = "c", word1 = "abaa", word2 = "bcaaa"
- Take from word2: merge = "cb", word1 = "abaa", word2 = "caaa"
- Take from word2: merge = "cbc", word1 = "abaa", word2 = "aaa"
- Take from word1: merge = "cbca", word1 = "baa", word2 = "aaa"
- Take from word1: merge = "cbcab", word1 = "aa", word2 = "aaa"
- Append the remaining 5 a's from word1 and word2 at the end of merge.

Example 2:

Input: word1 = "abcabc", word2 = "abdcaba"
Output: "abdcabcabcaba"

Constraints:

- 1 <= word1.length, word2.length <= 3000
- word1 and word2 consist only of lowercase English letters.

JavaScript

```
1 /**
2  * @param {string} word1
3  * @param {string} word2
4  * @return {string}
5  */
6 var largestMerge = function(word1, word2) {
7
8  };
```