**Problem #1768: Merge Strings Alternately**

<https://leetcode.com/problems/merge-strings-alternately/description/>

**My Solution:**

1. Let n1 be length of word1 and n2 be length of word2.
2. Initialize res to be an empty list.
3. Len n be the min of n1 and n2.
4. For i in range of n: append index i of word1 to res and then index I of word2 to res.
5. Join res to form a string called result.
6. If n1 is greater than n2, then return result concatenated with the rest of word1.
7. If n2 is greater than n1, then return result concatenated with the rest of word2.
8. Return result (if n1 and n2 are equal since there is no need to add any part of word1 or word2).

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class Solution:

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

n1 = len(word1)

n2 = len(word2)

res = []

n = min(n1, n2)

for i in range(n):

res.append(word1[i])

res.append(word2[i])

result = "".join(res)

if n1 > n2:

return result + word1[n: ]

elif n2 > n1:

return result + word2[n: ]

return result