


3838. Weighted Word Mapping

Easy   Hint

You are given an array of strings `words`, where each string represents a word containing lowercase English letters.

You are also given an integer array `weights` of length 26, where `weights[i]` represents the weight of the i^{th} lowercase English letter.

The **weight** of a word is defined as the **sum** of the weights of its characters.

For each word, take its weight modulo 26 and map the result to a lowercase English letter using reverse alphabetical order (0 -> 'z', 1 -> 'y', ..., 25 -> 'a').

Return a string formed by concatenating the mapped characters for all words in order.

Example 1:

Input: words = ["abcd","def","xyz"], weights = [5,3,12,14,1,2,3,2,10,6,6,9,7,8,7,10,8,9,6,9,9,8,3,7,7,2]

Output: "rij"

Explanation:

- The weight of "abcd" is $5 + 3 + 12 + 14 = 34$. The result modulo 26 is $34 \% 26 = 8$, which maps to 'r'.
- The weight of "def" is $14 + 1 + 2 = 17$. The result modulo 26 is $17 \% 26 = 17$, which maps to 'i'.
- The weight of "xyz" is $7 + 7 + 2 = 16$. The result modulo 26 is $16 \% 26 = 16$, which maps to 'j'.

Thus, the string formed by concatenating the mapped characters is "rij".

Example 2:

Input: words = ["a","b","c"], weights = [1,1]

Output: "yyy"

Explanation:

Each word has weight 1. The result modulo 26 is $1 \% 26 = 1$, which maps to 'y'.

Thus, the string formed by concatenating the mapped characters is "yyy".

Example 3:

Input: words = ["abcd"], weights = [7,5,3,4,3,5,4,9,4,2,2,7,10,2,5,10,6,1,2,2,4,1,3,4,4,5]

Output: "g"

Explanation:

The weight of "abcd" is $7 + 5 + 3 + 4 = 19$. The result modulo 26 is $19 \% 26 = 19$, which maps to 'g'.

Thus, the string formed by concatenating the mapped characters is "g".

Constraints:

- $1 \leq \text{words.length} \leq 100$
- $1 \leq \text{words}[i].\text{length} \leq 10$
- $\text{weights.length} == 26$
- $1 \leq \text{weights}[i] \leq 100$
- `words[i]` consists of lowercase English letters.

Seen this question in a real interview before? 1/5

Yes No

Accepted 42,408/49.9K | Acceptance Rate 84.9%

Topics



Hint 1

Hint 2	▼
Hint 3	▼
Hint 4	▼
Discussion (14)	▼

Copyright © 2026 LeetCode. All rights reserved.