

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 ($0 \rightarrow 'z'$, $1 \rightarrow 'y'$, ..., $25 \rightarrow 'a'$).

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: "rj"

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 't'.
- 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 "rj".

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)

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