

Problem 692: Top K Frequent Words

Problem Information

Difficulty: Medium

Acceptance Rate: 59.75%

Paid Only: No

Tags: Array, Hash Table, String, Trie, Sorting, Heap (Priority Queue), Bucket Sort, Counting

Problem Description

Given an array of strings `words` and an integer `k`, return `the k most frequent strings`.

Return the answer **sorted** by **the frequency** from highest to lowest. Sort the words with the same frequency by their **lexicographical order**.

Example 1:

Input: `words = ["i", "love", "leetcode", "i", "love", "coding"], k = 2` **Output:** `["i", "love"]`

Explanation: "i" and "love" are the two most frequent words. Note that "i" comes before "love" due to a lower alphabetical order.

Example 2:

Input: `words = ["the", "day", "is", "sunny", "the", "the", "the", "sunny", "is", "is"], k = 4` **Output:**

`["the", "is", "sunny", "day"]` **Explanation:** "the", "is", "sunny" and "day" are the four most frequent words, with the number of occurrence being 4, 3, 2 and 1 respectively.

Constraints:

`1 <= words.length <= 500` `1 <= words[i].length <= 10` `words[i]` consists of lowercase English letters. `k` is in the range `[1, The number of unique words[i]]`

Follow-up: Could you solve it in `O(n log(k))` time and `O(n)` extra space?

Code Snippets

C++:

```
class Solution {  
public:  
    vector<string> topKFrequent(vector<string>& words, int k) {  
  
    }  
};
```

Java:

```
class Solution {  
    public List<String> topKFrequent(String[] words, int k) {  
  
    }  
}
```

Python3:

```
class Solution:  
    def topKFrequent(self, words: List[str], k: int) -> List[str]:
```