

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]:
```