

# Problem 1817: Finding the Users Active Minutes

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 80.73%

**Paid Only:** No

**Tags:** Array, Hash Table

## Problem Description

You are given the logs for users' actions on LeetCode, and an integer `k`. The logs are represented by a 2D integer array `logs` where each `logs[i] = [IDi, timei]` indicates that the user with `IDi` performed an action at the minute `timei`.

**Multiple users** can perform actions simultaneously, and a single user can perform **multiple actions** in the same minute.

The **user active minutes (UAM)** for a given user is defined as the **number of unique minutes** in which the user performed an action on LeetCode. A minute can only be counted once, even if multiple actions occur during it.

You are to calculate a **1-indexed** array `answer` of size `k` such that, for each `j` ( $1 \leq j \leq k$ ), `answer[j]` is the **number of users** whose **UAM** equals `j`.

Return the array `answer` as described above.

**Example 1:**

**Input:** `logs = [[0,5],[1,2],[0,2],[0,5],[1,3]]`, `k = 5` **Output:** `[0,2,0,0,0]` **Explanation:** The user with `ID=0` performed actions at minutes 5, 2, and 5 again. Hence, they have a UAM of 2 (minute 5 is only counted once). The user with `ID=1` performed actions at minutes 2 and 3. Hence, they have a UAM of 2. Since both users have a UAM of 2, `answer[2]` is 2, and the remaining `answer[j]` values are 0.

**Example 2:**

**\*\*Input:\*\*** logs = [[1,1],[2,2],[2,3]], k = 4 **\*\*Output:\*\*** [1,1,0,0] **\*\*Explanation:\*\*** The user with ID=1 performed a single action at minute 1. Hence, they have a UAM of 1. The user with ID=2 performed actions at minutes 2 and 3. Hence, they have a UAM of 2. There is one user with a UAM of 1 and one with a UAM of 2. Hence, answer[1] = 1, answer[2] = 1, and the remaining values are 0.

**\*\*Constraints:\*\***

\*`1` <= logs.length <= 104` \*`0` <= IDi <= 109` \*`1` <= timei <= 105` \*`k` is in the range `[The maximum **\*\*UAM\*\*** for a user, 105]`.

## Code Snippets

### C++:

```
class Solution {
public:
    vector<int> findingUsersActiveMinutes(vector<vector<int>>& logs, int k) {

    }
};
```

### Java:

```
class Solution {
    public int[] findingUsersActiveMinutes(int[][] logs, int k) {

    }
}
```

### Python3:

```
class Solution:
    def findingUsersActiveMinutes(self, logs: List[List[int]], k: int) ->
    List[int]:
```