

# 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]:
```