Problem 2142: The Number of Passengers in Each Bus I

Problem Information

Difficulty: Medium
Acceptance Rate: 48.95%
Paid Only: Yes
Tags: Database

Problem Description

Table: `Buses`

+--------------+------+ | Column Name | Type | +--------------+------+ | bus_id | int | | arrival_time | int | +--------------+------+ bus_id is the column with unique values for this table. Each row of this table contains information about the arrival time of a bus at the LeetCode station. No two buses will arrive at the same time.

Table: `Passengers`

+--------------+------+ | Column Name | Type | +--------------+------+ | passenger_id | int | | arrival_time | int | +--------------+------+ passenger_id is the column with unique values for this table. Each row of this table contains information about the arrival time of a passenger at the LeetCode station.

Buses and passengers arrive at the LeetCode station. If a bus arrives at the station at time `tbus` and a passenger arrived at time `tpassenger` where `tpassenger <= tbus` and the passenger did not catch any bus, the passenger will use that bus.

Write a solution to report the number of users that used each bus.

Return the result table ordered by `bus_id` in **ascending order**.

The result format is in the following example.

Example 1:

Input: Buses table:

bus_id	arrival_time
1	2
2	4
3	7

Passengers table:

passenger_id	arrival_time
11	1
12	5
13	6
14	7

Output:

bus_id	passengers_cnt
1	1
2	0
3	3

Explanation: - Passenger 11 arrives at time 1. - Bus 1 arrives at time 2 and collects passenger 11. - Bus 2 arrives at time 4 and does not collect any passengers. - Passenger 12 arrives at time 5. - Passenger 13 arrives at time 6. - Passenger 14 arrives at time 7. - Bus 3 arrives at time 7 and collects passengers 12, 13, and 14.

Code Snippets

MySQL:

```
# Write your MySQL query statement below
```

MS SQL Server:

```
/* Write your T-SQL query statement below */
```

PostgreSQL:

```
-- Write your PostgreSQL query statement below
```