2142. The Number of Passengers in Each Bus I `Premium`

`Medium` 🏷 `Topics`

SQL Schema ＞   Pandas Schema ＞

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 t_{bus} and a passenger arrived at time $t_{passenger}$ where $t_{passenger} <= t_{bus}$ 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.
```

Seen this question in a real interview before?   1/5

Yes   No

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🏷 Topics

`Database`

💬 Discussion (5)