

# Problem 3140: Consecutive Available Seats II

## Problem Information

Difficulty: Medium

Acceptance Rate: 0.00%

Paid Only: No

## Problem Description

Table:

Cinema

+-----+-----+ | Column Name | Type | +-----+-----+ | seat\_id | int | | free | bool |  
+-----+-----+ seat\_id is an auto-increment column for this table. Each row of this table  
indicates whether the i

th

seat is free or not. 1 means free while 0 means occupied.

Write a solution to find the

length

of

longest consecutive sequence

of

available

seats in the cinema.

Note:

There will always be

at most

one

longest consecutive sequence.

If there are

multiple

consecutive sequences with the

same length

, include all of them in the output.

Return

the result table

ordered

by

first\_seat\_id

in ascending order

The result format is in the following example.

Example:

Input:

Cinema table:

```
+-----+-----+ | seat_id | free | +-----+-----+ | 1 | 1 || 2 | 0 || 3 | 1 || 4 | 1 || 5 | 1 |
+-----+-----+
```

Output:

```
+-----+-----+-----+ | first_seat_id | last_seat_id |
consecutive_seats_len | +-----+-----+-----+ | 3 | 5 | 3 |
+-----+-----+-----+
```

Explanation:

Longest consecutive sequence of available seats starts from seat 3 and ends at seat 5 with a length of 3.

Output table is ordered by first\_seat\_id in ascending order.

## 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
```

**Oracle:**

```
/* Write your PL/SQL query statement below */
```

**Pandas:**

```
import pandas as pd
```

```
def consecutive_available_seats(cinema: pd.DataFrame) -> pd.DataFrame:
```

## Solutions

### MySQL Solution:

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