

# Problem 1972: First and Last Call On the Same Day

## Problem Information

**Difficulty:** Hard

**Acceptance Rate:** 50.92%

**Paid Only:** Yes

**Tags:** Database

## Problem Description

Table: `Calls`

+-----+-----+ | Column Name | Type | +-----+-----+ | caller\_id | int || recipient\_id | int | | call\_time | datetime | +-----+-----+ (caller\_id, recipient\_id, call\_time) is the primary key (combination of columns with unique values) for this table. Each row contains information about the time of a phone call between caller\_id and recipient\_id.

Write a solution to report the IDs of the users whose first and last calls on \*\*any day\*\* were with \*\*the same person\*\*. Calls are counted regardless of being the caller or the recipient.

Return the result table in \*\*any order\*\*.

The result format is in the following example.

**Example 1:**

**Input:** Calls table: +-----+-----+-----+ | caller\_id | recipient\_id | call\_time | +-----+-----+-----+ | 8 | 4 | 2021-08-24 17:46:07 | | 4 | 8 | 2021-08-24 19:57:13 | | 5 | 1 | 2021-08-11 05:28:44 | | 8 | 3 | 2021-08-17 04:04:15 | | 11 | 3 | 2021-08-17 13:07:00 | | 8 | 11 | 2021-08-17 22:22:22 | +-----+-----+-----+ **Output:** +-----+ | user\_id | +-----+ | 1 | | 4 | | 5 | | 8 | +-----+ **Explanation:** On 2021-08-24, the first and last call of this day for user 8 was with user 4. User 8 should be included in the answer. Similarly, user 4 on 2021-08-24 had their first and last call with user 8. User 4 should be included in the answer. On 2021-08-11, user 1 and 5 had a call. This call was the only call for both of them on this day. Since this call

is the first and last call of the day for both of them, they should both be included in the answer.

## 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
```