

# Problem 3390: Longest Team Pass Streak

## Problem Information

**Difficulty:** Hard

**Acceptance Rate:** 0.00%

**Paid Only:** No

## Problem Description

Table:

Teams

+-----+-----+ | Column Name | Type | +-----+-----+ | player\_id | int || team\_name | varchar | +-----+-----+ player\_id is the unique key for this table. Each row contains the unique identifier for player and the name of one of the teams participating in that match.

Table:

Passes

+-----+-----+ | Column Name | Type | +-----+-----+ | pass\_from | int || time\_stamp | varchar || pass\_to | int | +-----+-----+ (pass\_from, time\_stamp) is the unique key for this table. pass\_from is a foreign key to player\_id from Teams table. Each row represents a pass made during a match, time\_stamp represents the time in minutes (00:00-90:00) when the pass was made, pass\_to is the player\_id of the player receiving the pass.

Write a solution to find the

longest successful pass streak

for

each team

during the match. The rules are as follows:

A successful pass streak is defined as consecutive passes where:

Both the

pass\_from

and

pass\_to

players belong to the same team

A streak breaks when either:

The pass is intercepted (received by a player from the opposing team)

Return

the result table ordered by

team\_name

in

ascending

order

The result format is in the following example.

Example:

Input:

Teams table:

player_id	team_name
1	Arsenal
2	Arsenal
3	Arsenal
4	Arsenal
5	Chelsea
6	Chelsea
7	Chelsea
8	Chelsea

Passes table:

pass_from	time_stamp	pass_to
1	00:05	2
2	00:07	3
3	00:08	4
4	00:10	5
5	00:15	6
6	00:20	7
7	00:22	8
8	00:25	2
2	00:27	3

Output:

team_name	longest_streak
Arsenal	3
Chelsea	4

Explanation:

Arsenal

's streaks:

First streak: 3 passes (1→2→3→4) ended when player 4 passed to Chelsea's player 5

Second streak: 2 passes (1→2→3)

Longest streak = 3

Chelsea

's streaks:

First streak: 3 passes (6→7→8→6→5)

Longest streak = 4

## 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 calculate_longest_streaks(teams: pd.DataFrame, passes: pd.DataFrame) ->
    pd.DataFrame:
```

## Solutions

### MySQL Solution:

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