# Problem 2793: Status of Flight Tickets

## Problem Information

**Difficulty:** Hard
**Acceptance Rate:** 77.93%
**Paid Only:** Yes

## Problem Description

Table: `Flights`

+-------------+------+ | Column Name | Type | +-------------+------+ | flight_id | int | | capacity | int | +-------------+------+ flight_id column contains distinct values. Each row of this table contains flight id and capacity.

Table: `Passengers`

+--------------+----------+ | Column Name | Type | +--------------+----------+ | passenger_id | int | | flight_id | int | | booking_time | datetime | +--------------+----------+ passenger_id column contains distinct values. booking_time column contains distinct values. Each row of this table contains passenger id, booking time, and their flight id.

Passengers book tickets for flights in advance. If a passenger books a ticket for a flight and there are still empty seats available on the flight, the passenger's ticket will be **confirmed**. However, the passenger will be on a **waitlist** if the flight is already at full capacity.

Write a solution to determine the current status of flight tickets for each passenger.

Return the result table ordered by `passenger_id` _in**ascending order**._

The result format is in the following example.

**Example 1:**

**Input:** Flights table: +-----------+----------+ | flight_id | capacity | +-----------+----------+ | 1 | 2 | | 2 | 2 | | 3 | 1 | +-----------+----------+ Passengers table: +--------------+-----------+---------------------+ |

passenger_id | flight_id | booking_time | +--------------+-----------+---------------------+ | 101 | 1 | 2023-07-10 16:30:00 | | 102 | 1 | 2023-07-10 17:45:00 | | 103 | 1 | 2023-07-10 12:00:00 | | 104 | 2 | 2023-07-05 13:23:00 | | 105 | 2 | 2023-07-05 09:00:00 | | 106 | 3 | 2023-07-08 11:10:00 | | 107 | 3 | 2023-07-08 09:10:00 | +--------------+-----------+---------------------+ **Output:** +--------------+-----------+ | passenger_id | Status | +--------------+-----------+ | 101 | Confirmed | | 102 | Waitlist | | 103 | Confirmed | | 104 | Confirmed | | 105 | Confirmed | | 106 | Waitlist | | 107 | Confirmed | +--------------+-----------+ **Explanation:** - Flight 1 has a capacity of 2 passengers. Passenger 101 and Passenger 103 were the first to book tickets, securing the available seats. Therefore, their bookings are confirmed. However, Passenger 102 was the third person to book a ticket for this flight, which means there are no more available seats. Passenger 102 is now placed on the waitlist, - Flight 2 has a capacity of 2 passengers, Flight 2 has exactly two passengers who booked tickets, Passenger 104 and Passenger 105. Since the number of passengers who booked tickets matches the available seats, both bookings are confirmed. - Flight 3 has a capacity of 1 passenger. Passenger 107 booked earlier and secured the only available seat, confirming their booking. Passenger 106, who booked after Passenger 107, is on the waitlist.

## 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
```