

2205. The Number of Users That Are Eligible for Discount

Description

Table: `Purchases`

Column Name	Type
<code>user_id</code>	<code>int</code>
<code>time_stamp</code>	<code>datetime</code>
<code>amount</code>	<code>int</code>

(`user_id`, `time_stamp`) is the primary key (combination of columns with unique values) for this table.
Each row contains information about the purchase time and the amount paid for the user with ID `user_id`.

A user is eligible for a discount if they had a purchase in the inclusive interval of time `[startDate, endDate]` with at least `minAmount` amount. To convert the dates to times, both dates should be considered as the **start** of the day (i.e., `endDate = 2022-03-05` should be considered as the time `2022-03-05 00:00:00`).

Write a solution to report the number of users that are eligible for a discount.

The result format is in the following example.

Example 1:

Input:
Purchases table:

user_id	time_stamp	amount
1	2022-04-20 09:03:00	4416
2	2022-03-19 19:24:02	678
3	2022-03-18 12:03:09	4523
3	2022-03-30 09:43:42	626

startDate = 2022-03-08, endDate = 2022-03-20, minAmount = 1000

Output:

user_cnt
1

Explanation:
Out of the three users, only User 3 is eligible for a discount.

- User 1 had one purchase with at least minAmount amount, but not within the time interval.
- User 2 had one purchase within the time interval, but with less than minAmount amount.
- User 3 is the only user who had a purchase that satisfies both conditions.

