2986. Find Third Transaction

Description

Table: `Transactions`

```
+------------------+----------+
| Column Name      | Type     |
+------------------+----------+
| user_id          | int      |
| spend            | decimal  |
| transaction_date | datetime |
+------------------+----------+
(user_id, transaction_date) is column of unique values for this table.
This table contains user_id, spend, and transaction_date.
```

Write a solution to find the **third transaction** (if they have at least three transactions) of every user, where the **spending** on the preceding **two transactions** is **lower** than the spending on the **third** transaction.

Return *the result table by* `user_id` *in* ***ascending*** *order*.

The result format is in the following example.

Example 1:

```
Input:
Transactions table:
+---------+--------+---------------------+
| user_id | spend  | transaction_date    |
+---------+--------+---------------------+
| 1       | 65.56  | 2023-11-18 13:49:42 |
| 1       | 96.0   | 2023-11-30 02:47:26 |
| 1       | 7.44   | 2023-11-02 12:15:23 |
| 1       | 49.78  | 2023-11-12 00:13:46 |
| 2       | 40.89  | 2023-11-21 04:39:15 |
| 2       | 100.44 | 2023-11-20 07:39:34 |
| 3       | 37.33  | 2023-11-03 06:22:02 |
| 3       | 13.89  | 2023-11-11 16:00:14 |
| 3       | 7.0    | 2023-11-29 22:32:36 |
+---------+--------+---------------------+
Output
+---------+-------------------------+------------------------+
| user_id | third_transaction_spend | third_transaction_date |
+---------+-------------------------+------------------------+
| 1       | 65.56                   | 2023-11-18 13:49:42    |
+---------+-------------------------+------------------------+
Explanation
- For user_id 1, their third transaction occurred on 2023-11-18 at 13:49:42 with an amount of $65.56, surpassing the expenditures of the previous
two transactions which were $7.44 on 2023-11-02 at 12:15:23 and $49.78 on 2023-11-12 at 00:13:46. Thus, this third transaction will be included in
the output table.
- user_id 2 only has a total of 2 transactions, so there isn't a third transaction to consider.
- For user_id 3, the amount of $7.0 for their third transaction is less than that of the preceding two transactions, so it won't be included.
Output table is ordered by user_id in ascending order.
```