

Medium

Table: LogInfo

Column Name	Type
account_id	int
ip_address	int
login	datetime
logout	datetime

This table may contain duplicate rows.

The table contains information about the login and logout dates of Leetflex accounts. It also contains the IP address from which the account was logged in and out.

It is guaranteed that the logout time is after the login time.

Write a solution to find the `account_id` of the accounts that should be banned from Leetflex. An account should be banned if it was logged in at some moment from two different IP addresses.

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

The result format is in the following example.

Example 1:

Input:

LogInfo table:

account_id	ip_address	login	logout
1	1	2021-02-01 09:00:00	2021-02-01 09:30:00
1	2	2021-02-01 08:00:00	2021-02-01 11:30:00
2	6	2021-02-01 20:30:00	2021-02-01 22:00:00
2	7	2021-02-02 20:30:00	2021-02-02 22:00:00
3	9	2021-02-01 16:00:00	2021-02-01 16:59:59
3	13	2021-02-01 17:00:00	2021-02-01 17:59:59
4	10	2021-02-01 16:00:00	2021-02-01 17:00:00
4	11	2021-02-01 17:00:00	2021-02-01 17:59:59

Output:

account_id
1
4

Explanation:

Account ID 1 --> The account was active from "2021-02-01 09:00:00" to "2021-02-01 09:30:00" with two different IP addresses (1 and 2). It should be banned.

Account ID 2 --> The account was active from two different addresses (6, 7) but in **two different times**.

Account ID 3 --> The account was active from two different addresses (9, 13) on the same day but **they do not intersect at any moment**.

Account ID 4 --> The account was active from "2021-02-01 17:00:00" to "2021-02-01 17:00:00" with two different IP addresses (10 and 11). It should be banned.

Write your MySQL query statement below

```
-- WITH CTE AS (SELECT *,LEAD(login) OVER (PARTITION BY account_id ORDER BY login) AS  
L,LAG(ip_address) OVER (PARTITION BY account_id ORDER BY login) AS IP,Lead(ip_address) OVER  
(PARTITION BY account_id ORDER BY login) AS IP1  
-- FROM LogInfo)
```

```
-- SELECT DISTINCT account_id  
-- FROM CTE  
-- WHERE L IS NOT NULL AND L BETWEEN login AND logout AND account_id NOT IN (SELECT  
account_id  
--  
-- FROM CTE  
-- WHERE L IS NULL AND ip_address=IP)  
AND account_id NOT IN (SELECT account_id  
--  
-- FROM CTE  
-- WHERE L BETWEEN login AND logout AND  
ip_address=IP1)
```

```
SELECT distinct a.account_id  
FROM LogInfo a JOIN LogInfo b  
ON a.account_id = b.account_id AND a.ip_address != b.ip_address  
and ((a.logout between b.login and b.logout) or (b.logout between a.login and a.logout))
```