Medium

Table: Customers

```
+---------------------+---------+
| Column Name         | Type    |
+---------------------+---------+
| customer_id         | int     |
| customer_name       | varchar |
+---------------------+---------+
```
customer_id is the column with unique values for this table.
customer_name is the name of the customer.

Table: Orders

```
+---------------+---------+
| Column Name   | Type    |
+---------------+---------+
| order_id      | int     |
| customer_id   | int     |
| product_name  | varchar |
+---------------+---------+
```
order_id is the column with unique values for this table.
customer_id is the id of the customer who bought the product "product_name".

Write a solution to report the customer_id and customer_name of customers who bought products **"A"**, **"B"** but did not buy the product **"C"** since we want to recommend them to purchase this product.

Return the result table **ordered** by customer_id.

The result format is in the following example.

Example 1:

Input:
Customers table:
```
+-------------+---------------+
| customer_id | customer_name |
+-------------+---------------+
| 1           | Daniel        |
| 2           | Diana         |
| 3           | Elizabeth     |
| 4           | Jhon          |
+-------------+---------------+
```
Orders table:
```
+------------+--------------+---------------+
| order_id   | customer_id  | product_name  |
+------------+--------------+---------------+
| 10         |    1         |    A          |
| 20         |    1         |    B          |
| 30         |    1         |    D          |
| 40         |    1         |    C          |
| 50         |    2         |    A          |
| 60         |    3         |    A          |
| 70         |    3         |    B          |
```

| 80 | 3 | D |
| 90 | 4 | C |
+------------+-------------+--------------+

Output:

+-------------+---------------+
| customer_id | customer_name |
+-------------+---------------+
| 3 | Elizabeth |
+-------------+---------------+

Explanation: Only the customer_id with id 3 bought the product A and B but not the product C.

```
# Write your MySQL query statement below
WITH CTE AS (SELECT customer_id,customer_name,GROUP_CONCAT(product_name order by
product_name) AS P_N
        FROM Customers
        JOIN Orders USING (customer_id)
        GROUP BY customer_id)

SELECT customer_id,customer_name
FROM CTE
WHERE P_N REGEXP 'A,B' AND P_N NOT REGEXP 'C';
```