

Table: Orders

Column Name	Type
order_id	int
product_id	int
quantity	int
purchase_date	date

order_id is the primary key for this table.

Each row in this table contains the ID of an order, the id of the product purchased, the quantity purchased, and the date of purchase.

Write an SQL query to report the IDs of all the products that were ordered three or more times in two consecutive years.

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

The query result format is shown in the following example.

Example 1:**

Input:

Orders table:

order_id	product_id	quantity	purchase_date
1	1	7	2020-03-16
2	1	4	2020-12-02
3	1	7	2020-05-10
4	1	6	2021-12-23
5	1	5	2021-05-21
6	1	6	2021-10-11
7	2	6	2022-10-11

Output:

product_id
1

Explanation:

Product 1 was ordered in 2020 three times and in 2021 three times. Since it was ordered three or more times in two consecutive years, it is included in the answer. Product 2 was ordered one time in 2022. We do not include it in the answer.