

Table: Teacher

Column Name	Type
teacher_id	int
subject_id	int
dept_id	int

(subject_id, dept_id) is the primary key for this table.

Each row in this table indicates that the teacher with teacher_id teaches the subject subject_id in department dept_id.

Write an SQL query to report the number of unique subjects each teacher teaches in the university.

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

The query result format is shown in the following example.

Example 1:**

Input:

Teacher table:

teacher_id	subject_id	dept_id
1	2	3
1	2	4
1	3	3
2	1	1
2	2	1
2	3	1
2	4	1

Output:

teacher_id	cnt
1	3
2	4

Explanation:

Teacher 1:

- They teach subject 2 in departments 3 and 4.
- They teach subject 3 in department 3.

Teacher 2:

- They teach subject 1 in department 1.
- They teach subject 2 in department 1.
- They teach subject 3 in department 1.
- They teach subject 4 in department 1.