

618. Students Report By Geography

Description

Table: `Student`

```
+-----+-----+
| Column Name | Type   |
+-----+-----+
| name        | varchar|
| continent   | varchar|
+-----+-----+

This table may contain duplicate rows.
Each row of this table indicates the name of a student and the continent they came from.
```

A school has students from Asia, Europe, and America.

Write a solution to `pivot` the continent column in the `Student` table so that each name is **sorted alphabetically** and displayed underneath its corresponding continent. The output headers should be `America` , `Asia` , and `Europe` , respectively.

The test cases are generated so that the student number from America is not less than either Asia or Europe.

The result format is in the following example.

Example 1:

```
Input:
Student table:
+-----+-----+
| name   | continent |
+-----+-----+
| Jane   | America   |
| Pascal | Europe    |
| Xi     | Asia      |
| Jack   | America   |
+-----+-----+

Output:
+-----+-----+-----+
| America | Asia | Europe |
+-----+-----+-----+
| Jack    | Xi   | Pascal |
| Jane    | null | null   |
+-----+-----+-----+
```

Follow up: If it is unknown which continent has the most students, could you write a solution to generate the student report?

