LeetCode

50 Days 50 SQL Questions
Work In Progress

Day 32/50

32. Triangle Judgement
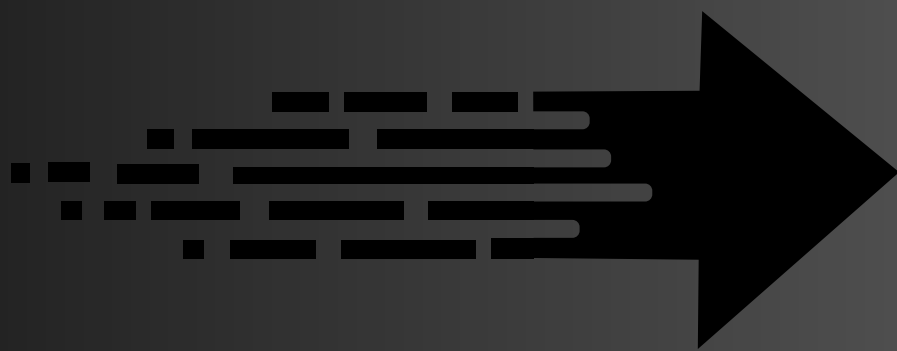
Question

Report for every three line segments whether they can form a triangle.
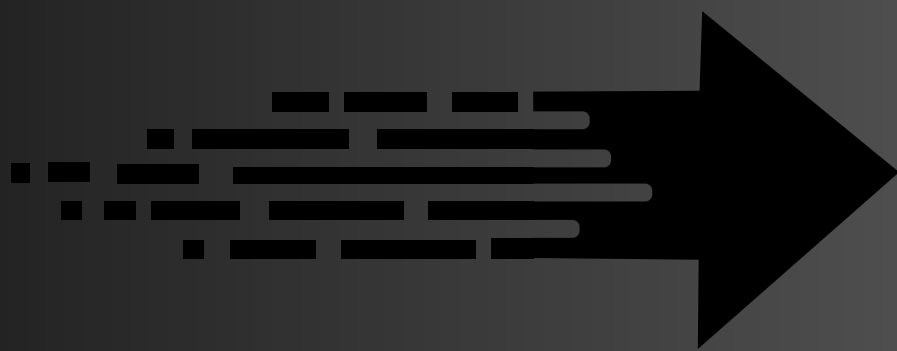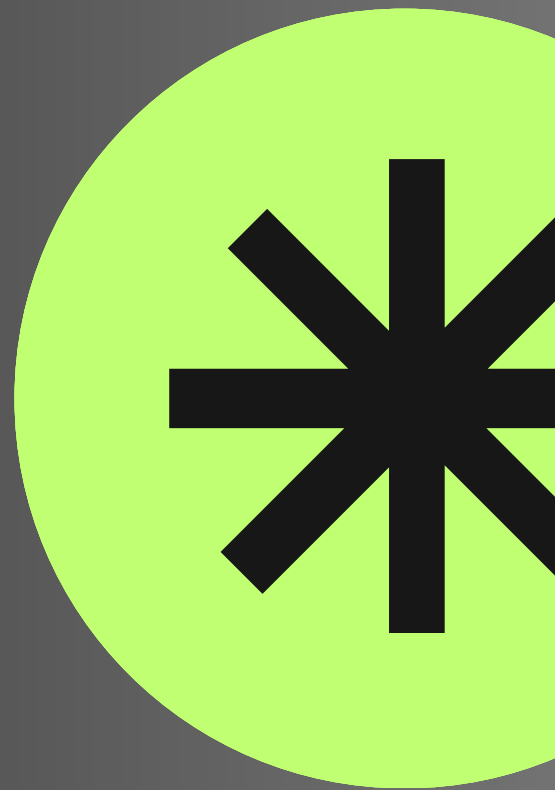
Return the result table in **any order**.

Table

```
Input:
Triangle table:

+----+----+----+
| x  | y  | z  |
+----+----+----+
| 13 | 15 | 30 |
| 10 | 20 | 15 |
+----+----+----+
```

Approach

Used the CASE statements to check if the sum of any two sides is equal to or smaller than the third side, then it can't form a triangle else Yes.

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Query

```
MySQL ∨    🔒 Auto

1   # Write your MySQL query statement below
2
3   SELECT
4       x,y,z,
5       CASE
6           WHEN (x+y<=z)
7           OR (y+z<=x)
8           OR (x+z<=y) THEN "No" ELSE "Yes" END AS triangle
9   FROM Triangle;
```

Output

```
Output:

+---------------+-----------------+
| employee_id   | department_id   |
+---------------+-----------------+
| 1             | 1               |
| 2             | 1               |
| 3             | 3               |
| 4             | 3               |
+---------------+-----------------+
```

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Thank You :)