



Type of Triangle



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Problem

Submissions

Leaderboard

Discussions

Write a query identifying the *type* of each record in the **TRIANGLES** table using its three side lengths. Output one of the following statements for each record in the table:

- **Not A Triangle:** The given values of *A*, *B*, and *C* don't form a triangle.
- **Equilateral:** It's a triangle with **3** sides of equal length.
- **Isosceles:** It's a triangle with **2** sides of equal length.
- **Scalene:** It's a triangle with **3** sides of differing lengths.

Input Format

The **TRIANGLES** table is described as follows:

Column	Type
<i>A</i>	Integer
<i>B</i>	Integer
<i>C</i>	Integer

Each row in the table denotes the lengths of each of a triangle's three sides.

Sample Input

<i>A</i>	<i>B</i>	<i>C</i>
20	20	23
20	20	20
20	21	22
13	14	30

Sample Output

```
Isosceles
Equilateral
Scalene
Not A Triangle
```

Explanation

Values in the tuple **(20, 20, 23)** form an Isosceles triangle, because $A \equiv B$.

Values in the tuple **(20, 20, 20)** form an Equilateral triangle, because $A \equiv B \equiv C$. Values in the tuple **(20, 21, 22)** form a Scalene triangle, because $A \neq B \neq C$.

Values in the tuple **(13, 14, 30)** cannot form a triangle because the combined value of sides *A* and *B* is not larger than that of side *C*.

Submissions: 8669



Max Score: 20



Difficulty: Easy

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☆☆☆☆☆

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MySQL  

```
1  /*
2  Enter your query here.
3  */
4
5  SELECT
6      CASE
7          WHEN (A+B)<=C THEN 'Not A Triangle'
8          WHEN (A+C)<=B THEN 'Not A Triangle'
9          WHEN (B+C)<=A THEN 'Not A Triangle'
10
11          WHEN A=B && A!=C THEN 'Isosceles'
12          WHEN A=C && B!=C THEN 'Isosceles'
13          WHEN B=C && A!=C THEN 'Isosceles'
14
15          WHEN (A=B && A=C) THEN 'Equilateral'
16          WHEN (A!=B && A!=C && B!=C) THEN 'Scalene'
17      END
18  FROM TRIANGLES
```

Line: 17 Col: 1

[Upload Code as File](#)

Run Code

Submit Code

Testcase 0 **Congratulations, you passed the sample test case.**Click the **Submit Code** button to run you code against all the test cases.**Your Output (stdout)**

```
Equilateral
Equilateral
Isosceles
Equilateral
Isosceles
Equilateral
Scalene
Not A Triangle
Scalene
Scalene
Scalene
Not A Triangle
Not A Triangle
Scalene
Equilateral
```

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