02 February 2025 04:31 PM

Type of Triangle

HackerRank |

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:

- 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.
- Not A Triangle: The given values of A, B, and C don't form a triangle.

Input Format

The TRIANGLES table is described as follows:

Column	Туре
A	Integer
В	Integer
С	Integer

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

Sample Input

Α	В	С
20	20	23
20	20	20
20	21	22
13	14	30

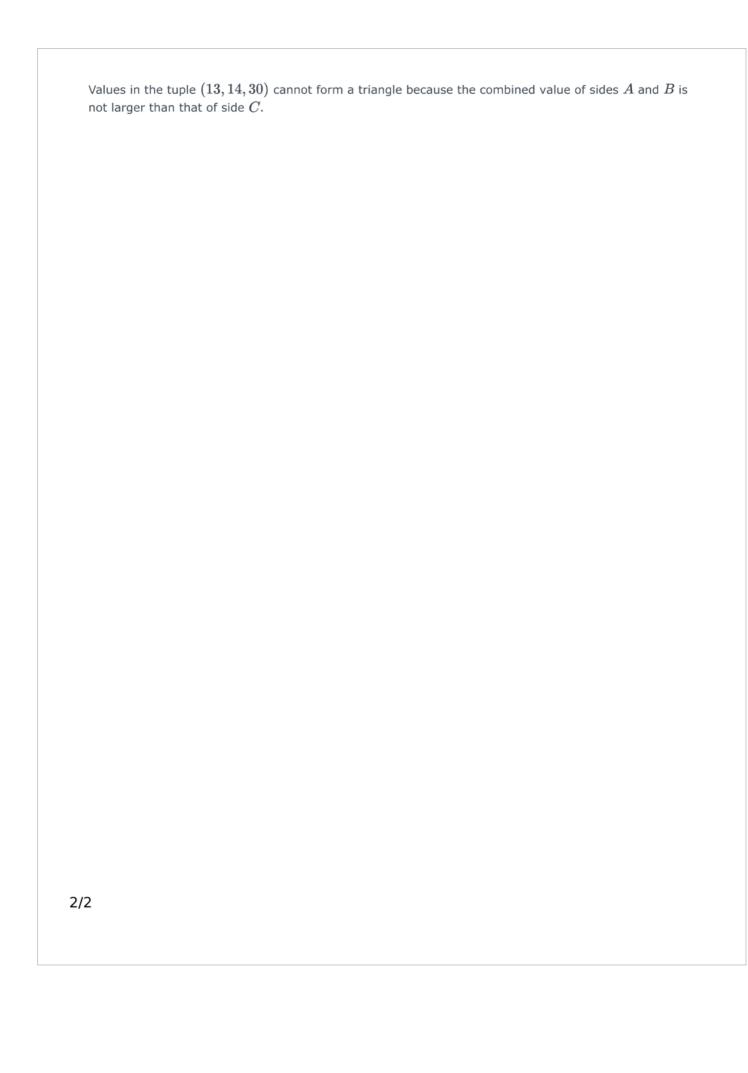
Sample Output

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 $A\neq B\neq C$.

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```
1 ▼ /*
   Enter your query here.
   */
4
   SELECT
5
      CASE
           WHEN a+b<=c OR b+c<=a OR c+a<=b THEN "Not A Triangle"
6
           WHEN a=b and b=c THEN "Equilateral"
7
           WHEN a=b OR b=c OR a=c THEN "Isosceles"
8
           ELSE "Scalene"
       END AS type_of_triangle
10
11
   FROM triangles;
```