

Problem Statement

Java

Given 3 sides of a triangle X, Y and Z as Input, write a program to print the type of the triangle. Types are – “**Equilateral**”, “**Isosceles**” or “**Scalene**”. Print “**NA**” if the triangle cannot be formed with the given sides.

Triangle Inequality Theorem: “Any side of a triangle must be shorter than the other two sides added together

- Equilateral Triangle: all three sides are equal
- Isosceles Triangle: any two sides are equal
- Scalene Triangle: All three sides are unequal

Constraints :

$$0 < X < 1000$$

$$0 < Y < 1000$$

$$0 < Z < 1000$$

Input Format :

First line contains X,Y,Z

Output Format :

Type of the triangle. “NA” if a triangle cannot be formed.

Sample Input :

10,15,15

Sample Output :

Isosceles

Sample Input :

10,10,10

Sample Output :

Equilateral

Infosys Springboard