Triangle Types

Input file:	standard input
Output file:	standard output
Time limit:	10 seconds
Memory limit:	256 megabytes

Sipho needs your help distinguishing between different types of triangles. Given three angles, given as three positive integers in degrees, you must first determine if they constitute the angles of a triangle. Note that the angles in a triangle must add up to 180°. If the angles form a triangle, you must then determine if it is an equilateral, isosceles, or scalene triangle.

Write a program that, when given three angles, determines what type of triangle they make. If no triangle can be made with the given angles, output "IMPOSSIBLE". Otherwise, if it makes an equilateral, isosceles, or scalene triangle, output "EQUILATERAL "ISOSCELES or "SCALENE"respectively (without quotation marks).

Input

Input consists of three space-separated integers, giving three angles.

Output

Output a single uppercase word. If no triangle can be made with the given angles, output "IMPOSSIBLE". Otherwise, if it makes an equilateral, isosceles, or scalene triangle, output "EQUILATERAL "ISOSCELES or "SCALENE"respectively (without quotation marks).

Examples

standard input	standard output
30 60 70	IMPOSSIBLE
40 40 100	ISOSCELES
50 60 70	SCALENE