

# EMPIRICAL SOFTWARE TESTING

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## Software Engineering

ESPOL

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Test	Input values(a,b,c)	Expected output
1	3,3,3	Equilateral
2	4,5,"="	Invalid input
3	200,1,1	Istriangule =false
4	2,3,4	Scalene
5	5,5,7	Isoceles
6	0,0,0	Out of range
7	200,200,200	Within range
8	200,0,4	Out of range
9	2.5,2.5,2.5	Equilateral
10	=-2, -2, 2	Out of range

### Assumptions:

Test 1: Equal numbers within the range correspond to an equilateral triangle.

Test 2: Non-numeric values are invalid.

Test 3: If there is a very large difference between the values, a triangle will not form.

Test 4: Different numbers within the range correspond to a scalene triangle.

Test 5: 2 equal numbers and 1 different number within the range correspond to an Isosceles triangle.

Test 6: Numbers less than 1 are invalid. (Out of range)

Test 7: Numbers equal to 200 are valid. (Within range)

Test 8: It is invalid if at least 1 input value is out of range.

Test 9: Decimals are considered valid.

Test 10: Negative numbers are invalid. (Out of range).

### Observations:

- There were problems when the input values were decimal numbers, but the code was fixed by changing the parameter types to accept both cases.
- Entering non-numeric values will generate an error in the code because it only supports numbers.