

FIND TRIANGLE TYPE

Test Cases



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Question:

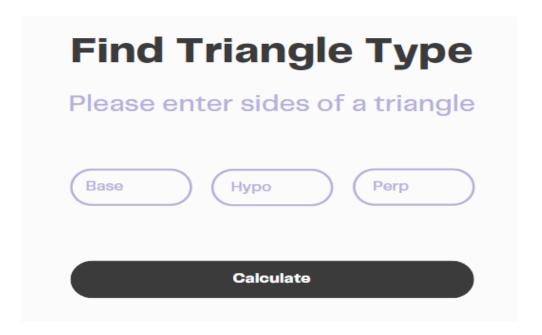
Make test cases for a triangle that can differentiate between isosceles, equilateral, and scalene types based on sides length as input and state if their verdict is true/false. Make assumptions for actual outcome.

Answer:

The Triangle has 3 sides which are:

- 1. Base
- 2. Hypotenuse
- 3. Perpendicular

UI:



Test Cases:

| Test Case | Test Case Description | Input Data | Expected Outcome | Actual Outcome | Status |
|-----------|------------------------------|-------------------------------|-----------------------|-------------------|--------|
| TC_01 | Test Equilateral Triangle | base=5, hypo=5, perp=5 | Equilateral triangle | | |
| TC_02 | Test Isosceles Triangle | base=5, hypo=5, perp= 6 | Isosceles triangle | | |

Find Triangle Type

| TC_03 | Test Scalene Triangle Test Invalid Triangle | base=3, hypo=4, perp=5 base=7, | Scalene triangle Invalid | |
|-------|---|---|---|--|
| _ | (Sum of two sides equals the third side) | hypo=3, perp10 | triangle | |
| TC_05 | Test Invalid Triangle (One side is greater than the sum of the other two) | base=1, hypo=1, perp=3 | Invalid triangle | |
| TC_06 | Test Invalid Triangle (One side is 0) | base=0, hypo=3, perp=3 | Invalid triangle | |
| TC_07 | Test Invalid Triangle (One side is negative) | base=-2, hypo=5, perp=6 | Invalid triangle | |
| TC_08 | Test Invalid Triangle (All sides are 0) | base=0, hypo=0, perp=0 | Invalid input, All side are 0. | |
| TC_09 | Test Invalid Triangle (All sides are negative) | base=-3, hypo=-4, perp=-5 | Invalid input, Sum of all side should be positive. | |
| TC_10 | To check that if any side entered is not an integer. | base=a, hypo=3, perp=2 | Invalid Input, please enter an integer input. | |
| | | base=7, hypo=a, perp=9 | | |
| | | base= 7, hypo=9, perp=a | | |