

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:

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### Test Cases:

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| **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 |  |  |
| **TC\_03** | Test Scalene Triangle | base=3, hypo=4, perp=5 | Scalene  triangle |  |  |
| **TC\_04** | Test Invalid Triangle (Sum of two sides equals the third side) | base=7, hypo=3, perp10 | Invalid  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  base=7,  hypo=a,  perp=9  base= 7,  hypo=9,  perp=a | Invalid Input, please enter an integer input. |  |  |