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Classify Triangle

1. The only challenge I encountered with this assignment was the inability to create an isosceles right triangle because of python’s rounding. Isosceles right triangles always have either legs or a hypotenuse that is an irrational number therefore it is impossible to accurately test them because their data cannot be contained in a finite number of bits without rounding. Example: 1,1, Square Root 2 is an isosceles right triangle. Other than failing to get this case to work I had no trouble with the assignment.
2. The requirements specification was almost perfect except the requirements didn’t point out what should be done in the case of the inputs not defining a triangle. My solution to this assignment returned a list that had been “strigified” with the relevant types of triangle, so in the case of the inputs not being a triangle I returned an empty “strigified’ list which looks like: “[]”. The requirements were not clear if this was an acceptable solution. I assume it is however as they only specified that the output needed to be a string.
3. I countered no challenges with the tools, everything worked perfectly, this assignment took me just over an hour (including writing this document)
4. In order to test is I had sufficient test cases I tested every possible combination of outputs: Equilateral, scalene, isosceles, right scalene, right isosceles. Then I tested all of those again with the parameters in a different order to test if my function had a parameter order bias. Then in a separate test set I tested the various ways the inputs could be invalid. Hypotenuse too long, inputs being 0, and inputs being negative. Then I reordered those inputs to test against parameter bias again. With all the possible outputs accounted for I knew I was done.