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CS362 Oregon State Spring 2021

Homework 4

Question 1;

1. Submitted files;

cube\_volume.py

test\_cube\_volume.py

can be found at;

<https://github.com/pattons-OSU/CS362_Homework/tree/master/Week_5>

1. In my testing of the simple cube app, I chose to test the arithmetic, input of a negative number, and input type. I chose these three because they seemed like the most relevant tests to run on a cube. Without knowing that these items are working, we would not know for sure that the program is giving us the correct values out. The arithmetic literally tests to make sure that the math is correct and not squaring instead of cubing or something of that nature. The test for a negative number is really in two parts. There is an inline test in the original program that looks for a value lower than 0 and then continues or doesn’t and then in the unittest suite it builds upon that and looks for a raised value error (some value lower than 0). Last, the type test is making sure that the user input is a type of int. If this was not the case then the program would fail and could not perform work on a non-integer type.