**Take-Home: Quiz 1 (15 pts) – Introduction to Computer Programming and Algorithms**

Using Canvas <https://canvas.wsu.edu/>, please submit your solution to the correct quiz folder. Your solution should be a .pdf file with the name <your last name>\_quiz1.pdf and uploaded. To upload your solution, please navigate to your correct Canvas ***lab*** course space. Select the “Assignments” link in the main left menu bar. Navigate to the correct quiz submission folder. Click the “Start Assignment” button. Click the “Upload File” button. Choose the appropriate .pdf file with your solution. Finally, click the “Submit Assignment” button.

1. (4 pts) Using your own words, what is an *algorithm*? Explain.

A logically sequenced group of clear instructions that helps achieve a goal in a set amount of time.

1. (8 pts) Provide an algorithm for making a pepperoni and olive pizza using premade crust and sauce from a jar. Be sure to number your steps.
2. Open the jar
3. Take out the premade crust
4. Set the crust flat on a large, flat surface such that the completely flat side is on the bottom.
5. Take the sauce out of the jar
6. Pour the sauce in the center of the face-up side of the crust
7. Spread the sauce evenly across the face-up part of the crust within the bumpy borders.
8. Grab cheese
9. Spread cheese evenly across all parts with sauce
10. Grab pepperoni
11. Put pepperoni randomly on the parts with cheese
12. Put olives randomly on the parts with cheese
13. Set oven temperature to 375 degrees Fahrenheit
14. Open oven when preheating finished
15. Put pizza in oven
16. Close oven
17. Wait 12 minutes
18. Open Oven
19. Take pizza out of oven
20. (3 pts – 1 pts for why/why not, 1 pt reason 1, 1 pt reason 2) Is the following an *algorithm* for making a peanut butter and jelly sandwich? Why or why not? Provide 2 reasons.

* With a knife spread some peanut butter on bread
* Using a different knife spread some jelly on bread
* Done

1. No, since the group of instructions has no order(for example do I go top to bottom, or bottom to top? Or something else?)
2. No, since the steps are unclear and does not specify many things, for example on the same bread or different, the amounts of each material, etc.