COSC 101: Spring 2018
Lecture 01: Computational Thinking & Introduction to Python

Name:

Interview your partner. Write down your partner’s answers below.

1. What is your partner’s name?

2. What is your previous experience (if any) with coding/computer science?

3. What subject do you plan on majoring in or if you aren’t sure yet what topics are you most interested in exploring?

4. What are the top three apps you use on your smart phone or what are the top three software programs you use on a computer?

5. If they differ from the above, what are your top three favorite apps and/or software programs to use?

6. What types of activities help you learn the best?

7. What do you like to do in your free time?
Computational Thinking

Computational thinking is the thought process involved in formulating a problem and expressing its solution(s) in such a way that a computer—human or machine—can effectively carry it out.

1. The following is an algorithm someone wrote for brushing your teeth:

   1. Wet the tooth brush
   2. Put toothpaste on toothbrush
   3. Brush teeth for 2 minutes
   4. Spit
   5. Rinse

   Is this algorithm executable? Why or why not?

2. For this exercise you will work with a partner.

   1. Turn away from your partner so you cannot see their worksheet and draw something in the box below. Do not look at what your partner is drawing!
2. On this sheet of paper write an algorithm explaining how to recreate the drawing you just drew.

3. Exchange instructions with your partner. Without looking at what your partner drew follow the instructions above to create a drawing in the box below.
4. Return your partner’s paper and compare your drawings. How well does what your partner drew match up with what you originally drew? How can you improve your instructions?