

Problem Set 01

Problem 1:

1. Different between Algorithm and Program:
 - a. Algorithm: conceptual idea, Program: concrete instantiation of an algorithm
2. A computational mode of thinking means that everything can be viewed as a math problem involving numbers and formulas. TRUE
3. Computer Science is the study how to build efficient machines that run programs. FALSE
4. The two things every computer can do are:
 1. Perform Calculations
 2. Remember the Results
5. C. $4 * a$

Problem 2:

1. A sequence of instructions is called a(n) -> a. program
2. Writing Python statements is called -> a. coding
3. Which programming tool graphically depicts the logical steps to carry out a task and show how the steps relate to each other? -> a. flowchart
4. Which programming tool uses English-like phrases with some Python terms to outline the task? -> d. pseudocode
5. Integer division is accomplished using : c. /

Problem 3:

