Independent Study Computer Science 2019-2020

Pacing Guide MP1

My ultimate goal this year in independent study is to improve my abilities of discipline and my ability to study to the point where I can successfully get a 5 on the AP Computer Science A Exam in May. To do this I will be using a variety of resources, but the first of these will be a run through of a textbook found at https://runestone.academy/runestone/books/published/apcsareview/index.html. After this I will likely do lots of Java based projects and practice tests during the second marking period, but this is yet to come. Also during this work I plan to continue my work with the programming club for competitions and my personal work in electrical engineering and machine learning on my blog.

- Week 1 Primitive Types (1) and Using Objects (2)
 - · Chapters 1 through 3 of the textbook and all associated problems and work
- Week 2 Boolean Expressions and If Statements (3)
 - · Chapters 4 and 5, all associated problems and work
- Week 3 Iteration (4)
 - · Chapter 6 and the magpie chatbot work
- Week 4 Writing Classes (5)
 - · Chapter 7 and all associated work
- Week 5 Array (6)
 - · Chapters 8 and 9 and all associated work
- Week 6 ArrayList (7)
 - · Chapter 10 and all associated work
- Week 7 2D Array (8)
 - · Chapter 11 and all associated work
- Week 8 Inheritance (9)
 - · Chapter 12 and all associated work
- Week 9 Recursion (10)
 - Chapter 13 and all associated work

After completing these 9 weeks I'll have covered the 10 main topics of the AP CSA Exam and course found on page 22 here https://apcentral.collegeboard.org/pdf/ap-computer-science-a-course-and-exam-description.pdf? course=ap-computer-science-a . I will be submitting all notes and work done for each chapter of the course onto my GitHub account and to schoology for you.