AP Computer Science Summer Assignment

Everyone taking AP Computer Science during the 2018-2019 school year should complete Part I of this assignment along with either Part IIA or IIB. Students with programming experience may complete Part IIA, while those with less prior knowledge should complete Part IIB.

Part I

Read each of the following Slate articles about algorithms. Then, write a reflection (150 or 200 words) describing your reaction to the articles, and your own ideas about the ways in which our society uses algorithms. Send this reflection to Ms. Langsdorf at LangsdorfA@my.weston.org.

http://www.slate.com/articles/technology/future_tense/2016/02/how_to_teach_yourself_about_algorithms.html

http://www.slate.com/articles/technology/future_tense/2016/02/what_is_an_algorithm_an_explainer.html

http://www.slate.com/articles/technology/cover_story/2016/01/how_facebook_s_news_feed_algorithm_works.html

Part IIA

If you have some previous programming experience (with ANY full-scale programming language like Python, Perl, C++, or Java – not a special-purpose language like HTML or NetLogo), send Ms. Langsdorf (LangsdorfA@my.weston.org) the code for any one project you have completed (attached as files to an email) and an explanation of what your project does and how it does it (as the text of your email).

OR

Part IIB

Complete Code.org’s 20-hour Accelerated Introduction to Computer Science. Sign up for the course here: http://studio.code.org/join/GLQQBFZ and work through the course’s sequence of coding puzzles. When you get to any lesson labelled “Unplugged Activity”, please watch the associated video, except that you may skip the videos in Activities 3, 4, 6, 8, 14, 16, and 18.