Algorithms and Programming for High Schoolers

Course Plan

Week 1

July 4:	What is program	ming? Wha	it is an algoi	rithm? (verview o	f course.	Start over	rview of I	Python.
	Simple types, va	riables, exp	oressions, b	asic arit	hmetic an	ıd compai	rison ope	rators, o	perator
	precedence, lists,	strings, fur	actions.						

- July 5: Control flow: if/else, for, in, while, break, continue, range(), len(). July 6: Recursion: Fibonacci example.
- July 7: Sorting: Bubble-sort, insertion sort, mergesort.
- July 8: Asymptotic analysis. Analyze the three sorting algorithms.

Week 2 July 11: July 12: July 13: July 14: July 15: Week 3 July 18: July 19: July 20: July 21: July 22: Week 4 July 25: July 26: July 27: July 28:

July 29: