

A, B, C, E, F. In a single file named `jdavis09.py` (except with your Carleton user name instead of mine), do Problems A, B, C, E, and F from the Recursion tutorial on the course web site. (Four of these five problems are quite short.) When you want to hand in your work, send me e-mail with subject line “Day 09”, no text in the body, and your Python file attached.

You do NOT need to hand in Problem D or Problem G from the tutorial, although they might also benefit your computer science education.

H. Prove that the intersection of a context-free language and a regular language is a context-free language. Hint: ?esruoc siht ni enod ew evah noitcesretni tuoba sfoorp rehto tahW

I. Show that if A is context-free and B is regular, then A/B is context-free. Hint: .snoitisnart- ϵ ynam sesu noitulos yM .deriuqer era skaewt suoiraV . B/A rof ADP a fo noitcurtsnoc eht ni N dna P esu ,nehT .ylsuoenatlumis M dna P nur ot elba si taht N ADP wen a dliuB . B rof AFD a M dna A rof ADP a eb P teL