

Python Programming II

Home Assignment

Background Reading

Textbook:

How to Think Like a Computer Scientist

Download under the GNU Free Documentation License using following link:

www.greenteapress.com/thinkpython/thinkCSpy.pdf

Read chapters 6 to 10.

Notes common to all lab and home assignment problems

For every lab and home assignment, all work should go into your personal repository, subdirectory named mXX, where XX stands for the module number. For each problem, carefully name the program as described. The programs are extracted from your repository by a Python script, and errors in the program name will result in the instructor never seeing your program, and your mark for it will be ZERO!

There are always many ways how to solve a programming problem, and usually one or two ways which are fast, compact and elegant.

Make sure to push your work to the server often, and have pushed the working version of the program by the deadline specified. The script extracting your programs from your repository will be run at any time after the deadline.

Problem 6

Write Python program **m03p06.py** which will also dump the Program Header and Section Headers from an ELF file given as command line parameter. The ELF file format is described at this web page: https://en.wikipedia.org/wiki/Executable_and_Linkable_Format

For each Program Header entry, dump at least the p_type, p_offset, p_vaddr, p_filesz, p_memsz

For each Section Header, dump at least Name, Type, Address, Offset, Size