SI@UCF Introduction to Competitive Programming
Homework 3: Functions

Each of the following Kattis Problems can be solved using the material from the third day's lecture(s) on functions. Function syntax is difficult to fully understand, so please ask for help if you're having trouble getting your code to compile and a TA can help you understand the specifics of actual and formal parameters and how to write syntactically correct code with functions.

For full credit, you must solve **at least five** of the following Kattis Problems:

https://open.kattis.com/problems/filip
https://open.kattis.com/problems/artichoke
https://open.kattis.com/problems/logicfunctions
https://open.kattis.com/problems/arithmeticfunctions
https://open.kattis.com/problems/numberfun
https://open.kattis.com/problems/statistics

In addition to your solution files, please submit a separate file (a docx is file) where for each program you state the number of submissions you needed to get it correct. For each program where you needed more than one submission, for each extra submission, explain what you fixed compared to the previous submission.

Note: Four of these problems can be solved without functions, but the purpose of the assignment is to get practice writing your own functions separate of main. To that end, more credit will be assigned for using multiple functions and less for correct submissions.

Deliverables

1. Your source files for each of your solutions**. It is expected that each has at least one function other than main.**

2. A screenshot(s) (.jpg or suitable format) of your program's accepted status on Kattis. (You can usually see the status of your last several submissions if you click on submissions, so it's likely either one or two screenshots will suffice.)

3. A separate doc(x) file where you state the number of submissions you needed to get each program accepted, and for each program that required more than one submission, what you fixed on each incorrect submission before resubmitting.

Grading Details

50% will solely be based on correctness.

30% will be based on integration of one function other than main into each program.

10% will be based on your programming style. (Note: short variable names are permitted, but some basic readability and comments are required. You may comment after getting your correct submission status.)

10% will be based on the document you submit.