

COMP SCI 1200 Summer 2017

Programming Assignment 1

Argument Form Validity Checking

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Synopsis

The goal of this assignment set is for you to apply your understanding of argument form validity checks to automate them by implementing code to accomplish this.

Feel free to consult with your favorite search engine, the instructor, and your fellow classmates when you need help. Just make sure that what you turn in is your own work!

Problem statement

Write a program to automate checking validity of argument forms. Your program should output whether an argument form is valid and its justification for that claim.

To avoid the complexity of parsing arbitrary argument forms, you may hard code an argument form of your choice with three boolean variables and a varied selection of negations, conjunctions, disjunctions, and conditionals. You should write your code so that it is easy to change the argument form being checked.

Resubmissions, penalties, documents, and bonuses

If you submit before the deadline, then you may resubmit up to a reasonable number of times till the deadline but not thereafter; your last on time submission will be graded. If you do not submit before the deadline, then your first late submission will be graded.

The penalty for late submission is a 5% deduction for the first 24 hour period and a 10% deduction for every additional 24 hour period. So 1 hour late and 23 hours late both result in a 5% deduction. 25 hours late results in a 15% deduction, etc. Not following submission guidelines can be penalized for up to 5%, which may be in addition to regular deduction due to not following the assignment guidelines.

Some assignments may offer bonus points for extra work, but note that the max grade for the average of all assignments is capped at 100%.

Deliverables & Due Date

The deliverables of this assignment are:

1. Your source code with a comment at the top of each file containing your name and the course name
2. Any necessary support files such as makefiles, project files, etc.

3. A readme file to explain how to compile/execute your submission on a Windows or Linux computer in CLC 213 of the Computer Science Building.

Submit all files in a .zip, .7z, or gzipped tar ball format. The due date for this assignment is 11:59 PM on Monday June 19, 2017.

Grading

The maximum number of regular points you can get is 50. The point distribution is as follows:

Algorithmic	30
Good programming practices including code reliability and commenting	15
Output to user	5

Up to 25 bonus points can be earned by parsing arbitrary, user provided, argument forms rather than hard coding the specified form.