McMaster University Comp Sci 4TB3/6TB3, Winter Term 2017/18 — Lab 7
For the Labs on February 27 - March 2,
Due Monday, March 5, 11 pm

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out of 24 points

- *Submission is to be done exclusively through Avenue. Submissions via e-mail will not be accepted. A **10% penalty** will be accessed for each day the lab is submitted after the due date.*
- This assignment requires access to a Linux, MacOS X, or some other Unix computer. You can log in remotely to either `moore.mcmaster.ca` or to `mills.mcmaster.ca` with ssh. Submissions are tested on `moore.mcmaster.ca`, please check if your submission works there.
- In this lab, you are allowed to work in pairs, provided that you split the work equally and arrive at a common understanding of the solution. However, in that case you must state in your submission the person you worked with, such that similarities in the solution will not be construed as Academic Dishonesty. Working in groups of three or larger is not allowed and will be considered Academic Dishonesty. If you look for someone to work with, we will try to find a match, please contact the TAs.
- You are allowed and encouraged to talk to everyone in the course to get a common understanding of the problem, but you can share partial solutions only with your collaborator, if you work in a pair. The final submission must be your own, that is, you cannot submit identical submissions with two names on them.

Lab Question 1 (Symbol Table, 24 points)**.** Implement a symbol table module for the language P0 as described in the course notes (pg 139-150). As such, the following procedures must be included.

- *procedure NewObj(var obj: Object; cls: Class);*
- *procedure OpenScope;*
- *procedure CloseScope;*
- *procedure find (var obj: Object);*

You can implement this in a language of your choosing. As mentioned before, you can implement the symbol table in the language of your choice but you must provide a testing program called “test" which runs test cases you have created. An associated script file called “script” must build and run your program. Your program must build and run on a Linux server such as mills.mcmaster.ca hosted at the university.