

**Department of Computer Science
University of Massachusetts Lowell
91.102 Computing II
Fall 2015**

Lab 4: Debugging with gdb

In this lab, you will learn to use a command line debugger such as gdb to debug some programs.

- compile lab4.c using the command or add these flags to your makefile:
 - `gcc -g -std=c99 -o lab4 lab4.c findCity.c`
- execute the program:
 - `./lab4`
- why does the routine findCity always return -1?
- why does the program crash?
- Use gdb to debug these issues
- Minimum subset of debugger commands expected to be learnt in this lab—you can try out other commands by entering `help` and `help <class of command>`--for example `help running`:
 - `break`
 - `run`
 - `continue`
 - `step`
 - `next`
 - `where`
 - `backtrace`
 - `up`
 - `down`
 - `print`
 - `list`
 - `file`
 - ...

Deliverables

- debugged program without the existing bugs
- a report of the observations and what the bugs were?
- what gdb commands you tried and learnt? For each command a 1-2 line explanation of how you used it.