GDB Cheat Sheet:

- **quit**   (q)
  - Exit gdb
- **disassemble** [any function name within the executable] (disas)
  - Show the assembly code for that function
- **set disassemble-next-line on**
  set disassemble-next-line off
  show disassemble-next-line
  - Shows the next assembly instruction after each step
- **stepi**
  - Step through 1 assembly instruction. Will follow function calls into other functions
- **nexti**
  - Same as stepi, but will not follow function calls.

- **breakpoint** [location]   (b)
  - Set a breakpoint at location. Execution will stop before executing the line where the breakpoint is located at. The most common are [function], [*memory address], and [line number], but can be a number of things
  - See the gdb documentation for more information:
    ftp://ftp.gnu.org/old-gnu/Manuals/gdb/html_node/gdb_28.html#SEC29
- **info breakpoints**   (i b)
  - List all breakpoints, along with whether or not they are enabled
- **delete** [breakpoint]   (d)
  - Delete a breakpoint
- **enable** [breakpoint]   (en)
  - Enable a breakpoint, If none specified, enables all breakpoints
- **disable** [breakpoint]   (dis)
  - Disable a breakpoint. If none specified, disables all breakpoints

- **info registers**   (i reg)
  - Print all the registers, along with their contents
- **print** [any valid C expression]   (p)
  - Can be used to study any kind of local variable or memory location
  - Use casting to get the right type (e.g. print *(long *)pointer)
  - Can format with things like /x (hex), /d (int), /s (string) etc.
- **x** [some format specifier] [some memory address]
  - Examines memory. "x ptr" is the same as "p *ptr"
  - Can format with things like /x (hex), /d (int), /s (string) etc.
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- **layout** [next | prev | assembly | register] (la [n | p | asm | reg])
  - Show assembly code or registers in the top half of window as you go
  - The TUI is buggy. If your screen begins glitching, you may have to restart GDB
  - Exit with <ctrl> x + <ctrl> a
- **focus** [command | assembly | register] (foc cmd | asm | reg])
  - Change the focus window within the TUI (buggy)