GDB Cheat Sheet

Basics	Breakpoints	Examining Data
gcc -g make an executable that can be debugged using GDB	break <u>point</u> create a breakpoint at <i>point</i>	print <u>var</u> show current value of variable <i>var</i>
gdb <u>progName</u> start debugging <i>progName</i>	<pre>point can be a line number eg. break 5 point can also be a function name eg. break main if the project contains multiple source files, break point must specify file eg. break foo.c:5</pre>	print/ <u>format</u> <u>var</u> show current value of <i>var</i> in specified format
		<pre>print/x var uses hexadecimal format (useful for examining addresses) var can be a struct attribute eg. print node->key</pre>
gdbargs <u>progName</u> <u>args</u> start debugging <i>progName</i> , using command-line arguments <i>args</i>	continue continue executing normally	display <u>var</u> automatically print value of <i>var</i> at each halt in execution
q quit GDB	finish continue executing until current function returns	undisplay <u>var#</u> stop displaying variable with display number <i>var#</i>
help <u>command</u> display information about command, incl. its syntax	step execute next line of source code	watch <u>var</u> set a watchpoint on <i>var</i> : pause the program whenever value of <i>var</i> changes
run start running program	next execute next line of source code, without descending into functions (treat a function call as a single line)	info args show value of all arguments to current function
kill terminate currently running program		info locals show current value of all local variables
Examining the Stack	Modifying Breakpoints	
backtrace display the current call stack (can be used after a runtime error, eg. segfault)	info breakpoints display information about all current breakpoints	
	delete remove all breakpoints	
	delete <u>breakpoint#</u> remove breakpoint with number breakpoint#	