EECS 381 Example Code Quality Check List - C version

Explanation and guidance for some items is shown in italics

Student:	AG score:
General code quality	
(2) Appropriate commenting.	
Function prototypes first, functions in readable order	
Main function is very small	
- represents top level of program process, calling functions that do the w	vork.
Program has well-chosen subfunctions to organize the code	
Program lacks redundant or awkward code.	
- it could have been eliminated, or rewritten to make it simpler and cleare	er.
Code is not duplicated excessively.	
- don't code identical functionality with copy/paste! - write a function ins	tead!
Code reads well, and is not excessively verbose or convoluted.	
Good variable/symbol naming	
Code follows recommended C style practices (e.g. NULL, typedefs, macro	ro names)
Code uses C idioms	. · · · · · · · · · · · · · · · · · · ·
- testing with if(flag) instead of if(flag $!=0$), writing loops like for($i=0$)	: i < len: i++) when possible.
(2) Program lacks egregious or gross inefficiency.	, control personal
- egregious inefficiency: inefficiency without compensating quality impr	ovement in return.
gross inefficiency: extreme inefficiency that could have been easily avoi	
Main function built around a switch statement that calls command-special Format for scanf of strings disallows overrun of array No unnecessary memory allocations (e.g. for temporary buffers - local are Memory allocated and deallocated in responsible module's functions only Return value from malloc checked and program terminated if 0 Memory for strings allocated to fit the data No apparent memory leaks. All allocated memory freed upon termination. Globals are used, and declared and defined in .h, .c files, following course Globals are modified only by appropriately responsible module Good choice of functions in Utility module (e.g. a string allocator/deallo - functions used in more than one module, or could be used in very differ Standard Library facilities used appropriately (no reinvention of wheels)	rays used instead) e guidelines.
Other Attributes Additional positive qualities: Additional negative qualities: - Points deducted if serious failure to apply course content or project spectors. On an important topic, the project looks like you aren't even in the or you completely missed the point, or blew off the project goals.	
Total	