

EECS 381 Sample Code Quality Check List - C version

Student: _____ AG score: _____

General code quality

- _____ (2) Appropriate commenting.
- _____ Function prototypes first, functions in readable order
- _____ Main function is very small
- _____ Program has well-chosen subfunctions to organize the code
- _____ Program lacks redundant or awkward code.
- _____ Code is not duplicated excessively.
- _____ 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 names)
- _____ C used idiomatically (e.g. for statements follow idiomatic pattern)

Specific code quality - differs depending on project

- _____ Main function built around a switch statement that calls command-specific functions
- _____ Format for scanf of strings disallows overrun of array
- _____ No unnecessary memory allocations (e.g. for temporary buffers - local arrays used instead)
- _____ 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
- _____ p1_globals files are correct and used correctly
- _____ Globals are incremented/decremented by responsible module
- _____ Good choice of functions in Utility (e.g. a string allocator/deallocator)
- _____ Standard Library facilities used appropriately (no reinvention of wheels)