

Midterm Topics

CSE 333 16au

There is nothing about C++ on the midterm.

- Scope and Lifetime
 - Global vs. local
 - Global vs local
- Type checking
- Pointers
 - call by value vs. call by reference
 - return by value
- Arrays
 - C strings
- The preprocessor
 - #include, #define, #ifndef
 - The purpose of .h files
 - .h files vs. libraries
- Linking
- Portability of code
 - C standard library
 - basic string functions (strcpy, strcmp)
- Memory management
 - static data; heap data; stack data; text
 - malloc/free
 - basic use of valgrind
- Function pointers
- Generics in C
 - callbacks
- structs
- Files
 - buffered vs. unbuffered I/O
 - performance implications
 - purpose of open
 - unlink
 - links (man ln)
- Processes
 - Creation (fork, exec)
 - Inter-process communication
 - argv, files, named pipes, anonymous pipes, signals, shared memory
- jansson / gtk+ reference counting
- Projects 1-3

