

# Review Topics

# C Syntax

- Know valid C
- Typedefs
- Structs
- Type conversion
- Ifdefs
- Function pointers
- Macros
- Declarations & definitions
- Sample question:
  - Which of the following lines cause a compile time error?

# C Memory

- Pointers, Pointers, Pointers!
  - Sample: provide code snippet to modified link-list like struct
- Malloc & free
  - If there is a question about “what is wrong with this code” check for mem leaks and not checking malloc return
- Stack vs Heap Memory
- String Literals and Protected memory

# C Development

- .c vs .h
- Pre-processor, compile time, link time
  - What does the Pre-processor do? What do we input and output?
  - What does the compiler do? Input, output?
  - What does the linker do? I/O?
- Makefiles
  - Probably don't have to write them, but good to know what they do

# Other Topics

- Fork/Exec, Processes, Pipes
- File I/O
  - BE ABLE TO WRITE FILE I/O CODE!!!!
- Pointer Arithmetic