Storage class ... somewhat tied to scope in C

Automatic storage (on the stack—in the stack frame of a function)

- 1. Local variables go here (unless you move them to static storage by writing 'static' before the declaration).
- 2. Created during stack frame setup (function starts)
- 3. Filled with bits unless you initialize
- 4. Destroyed when stack frame torn down (function finished)
- 5. One copy per function execution (may be >1 at once, even)

Static storage (in the global data area—also stored on disk as part of executable)

- 1. Initialized to 0 by default (but don't use that fact)
- 2. Exists for the lifetime of the program.
- 3. Exactly one copy (variable has one value; if you change it, it stays changed)

Dynamic storage (in the heap)

- 1. Created on demand.
- 2. Destroyed on demand.
- 3. No name.