## **Address Binding**

Who assigns memory to segments?

## Static-binding: before a program starts running

Compile time: Compiler and assembler generate an object file for each source file

## Load time:

- Linker combines all the object files into a single executable object file
- Loader (part of OS) loads an executable object file into memory at location(s) determined by the OS
  - invoked via the execve system call

## Dynamic-binding: as program runs

- Execution time:
  - uses new and malloc to dynamically allocate memory
  - gets space on stack during function calls