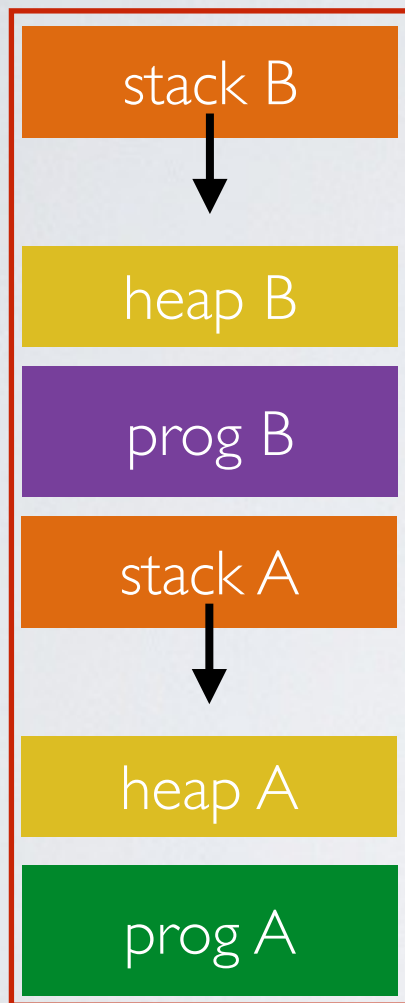


# The problem of managing the memory



How to make programs and execution contexts co-exists in memory?

- ✓ Placing multiple execution contexts (stack and heap) at random locations in memory is not a problem ...  
... well, as long as you have enough memory
- ⦿ However having programs placed at random locations is problematic

## (recap) Compiling and linking

- **Compiler** takes source code files and translates (binds) symbolic addresses to logical, relocatable addresses within compilation unit (object file)
- **Linker** takes collection of object files and translates addresses to logical, absolute addresses within executable (resolves references to symbols defined in other files/modules)