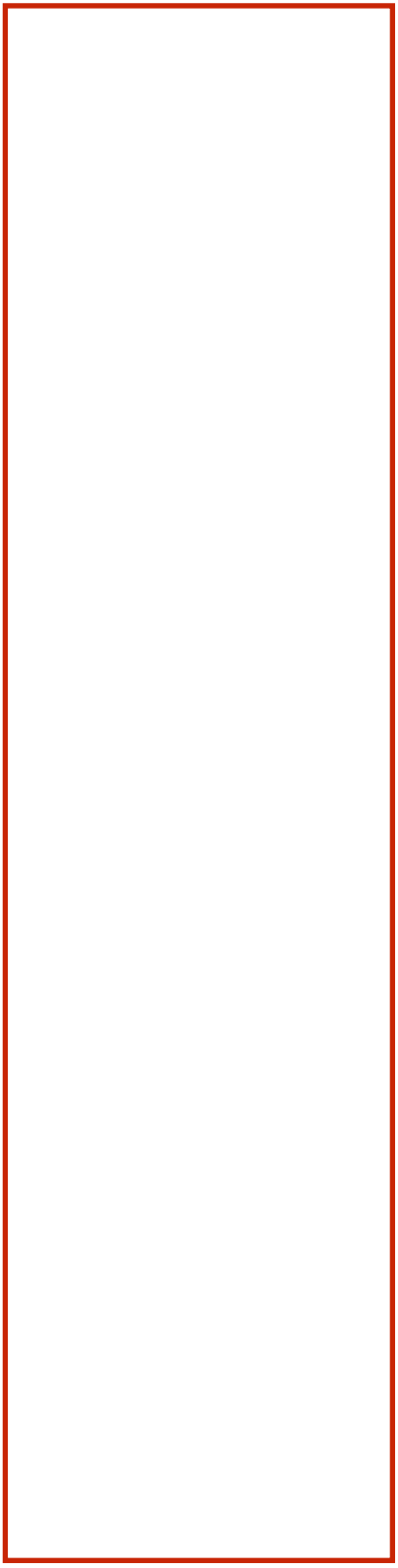


The need for protection



prog A

stack A

heap A




prog B

stack B

heap B





User programs might
interfere with each other if
they share the same memory



User program can
interfere with the kernel

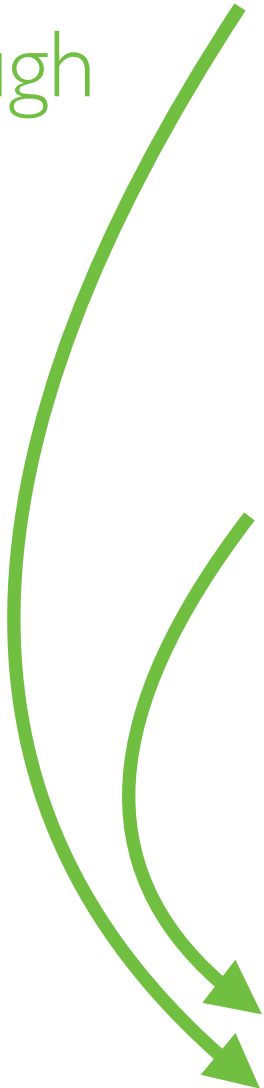
Kernel

kernel stack

kernel heap

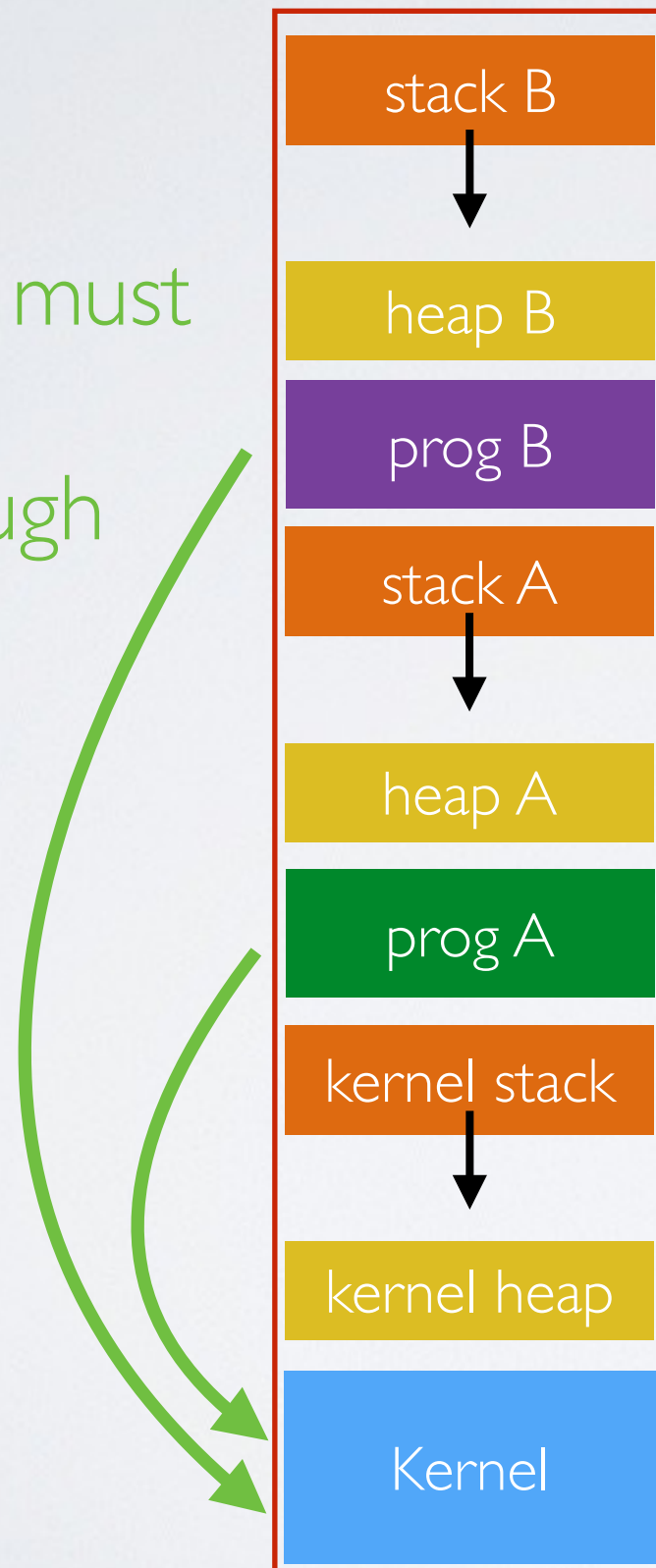


User programs must
access shared
resources through
the kernel



The need for protection

User programs must access shared resources through the kernel



User programs might interfere with each other if they share the same memory

User program can interfere with the kernel

Definition of the process and system calls

