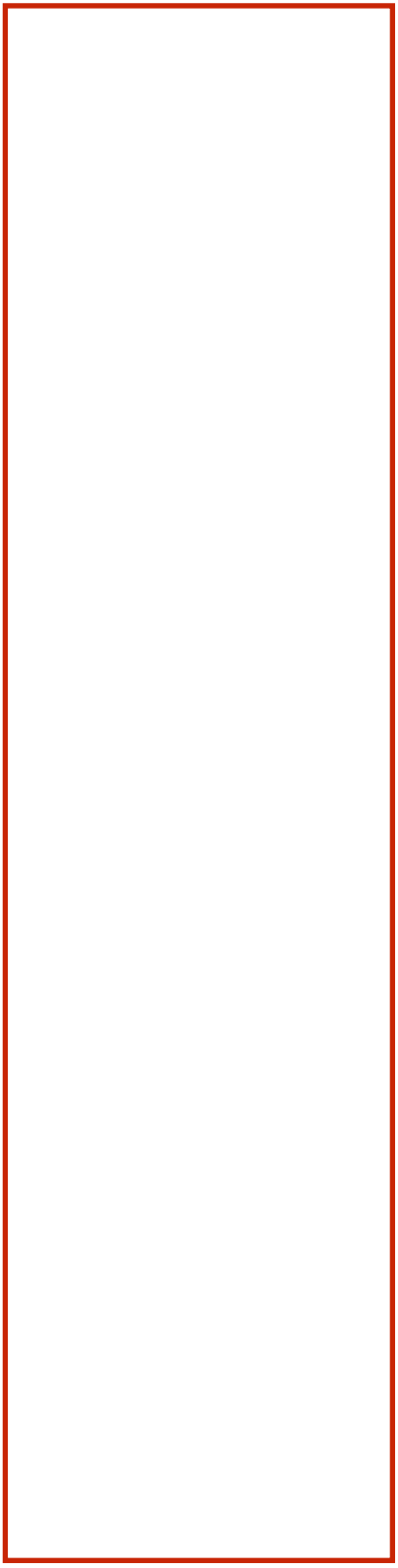




The need for protection



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

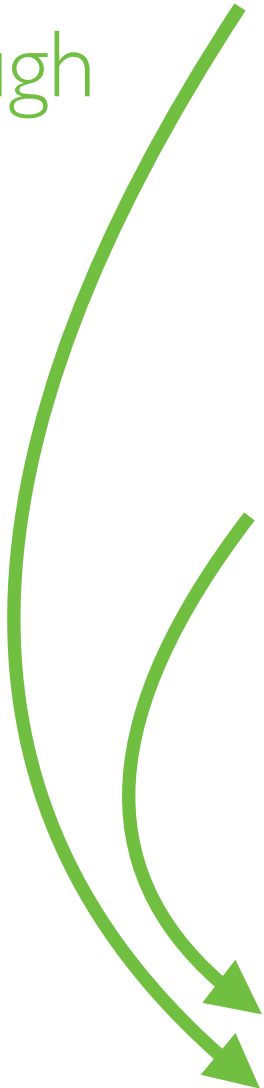
kernel stack

kernel heap



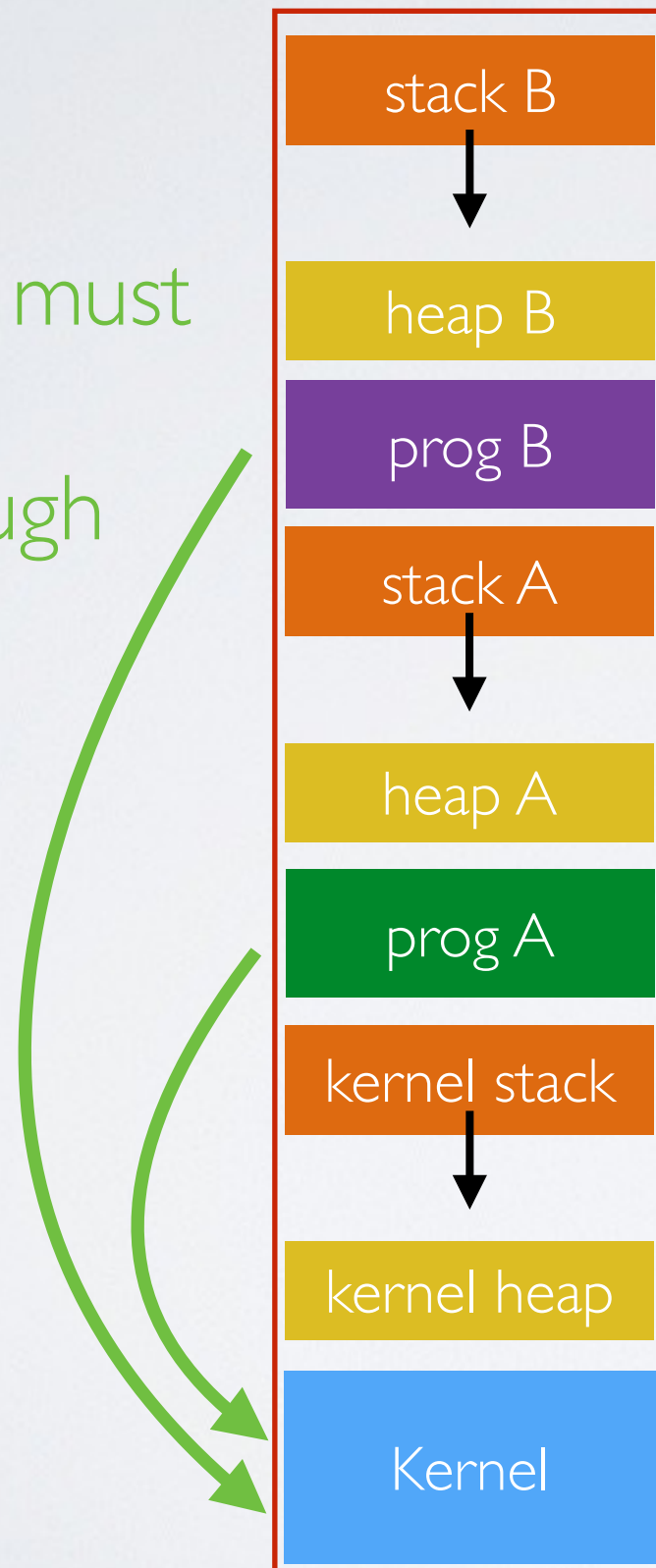


User programs must  
access shared  
resources through  
the kernel



# 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

