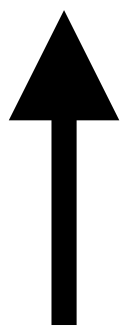
The need for protection

prog A

stack A

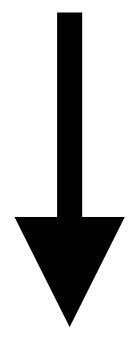
heap A

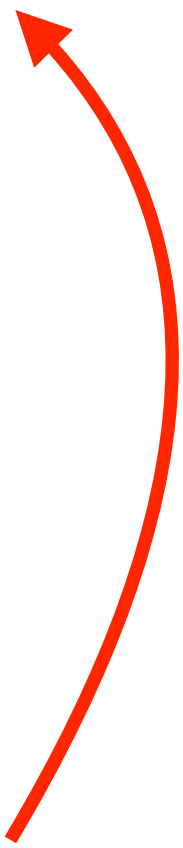


prog B

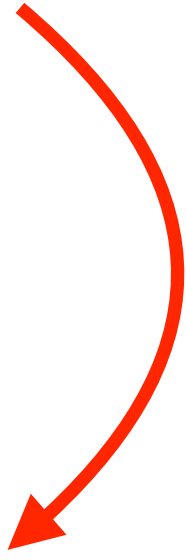
stack B

heap B





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



User program can
interfere with the kernel

Kernel

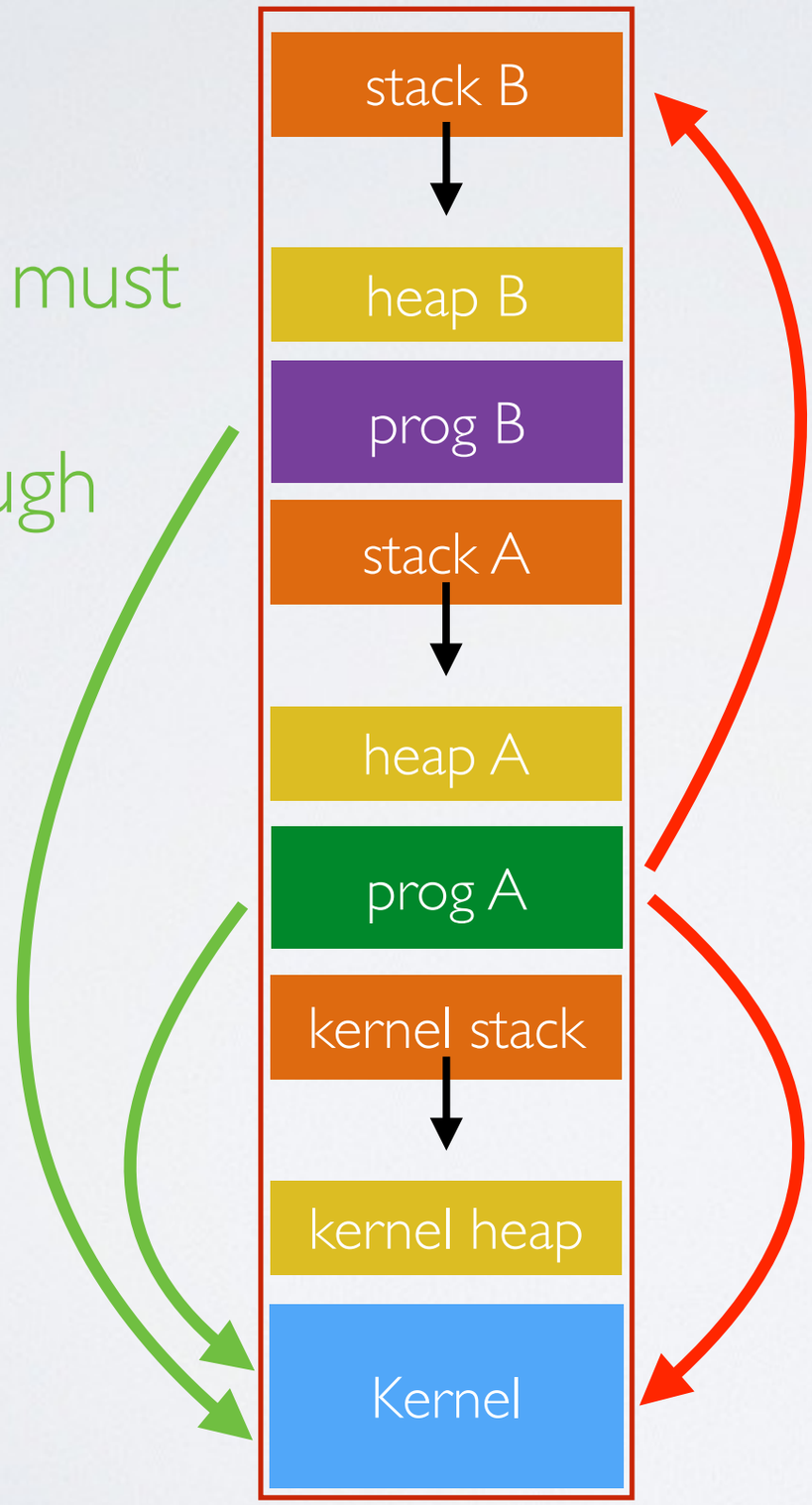
kernel stack

kernel heap

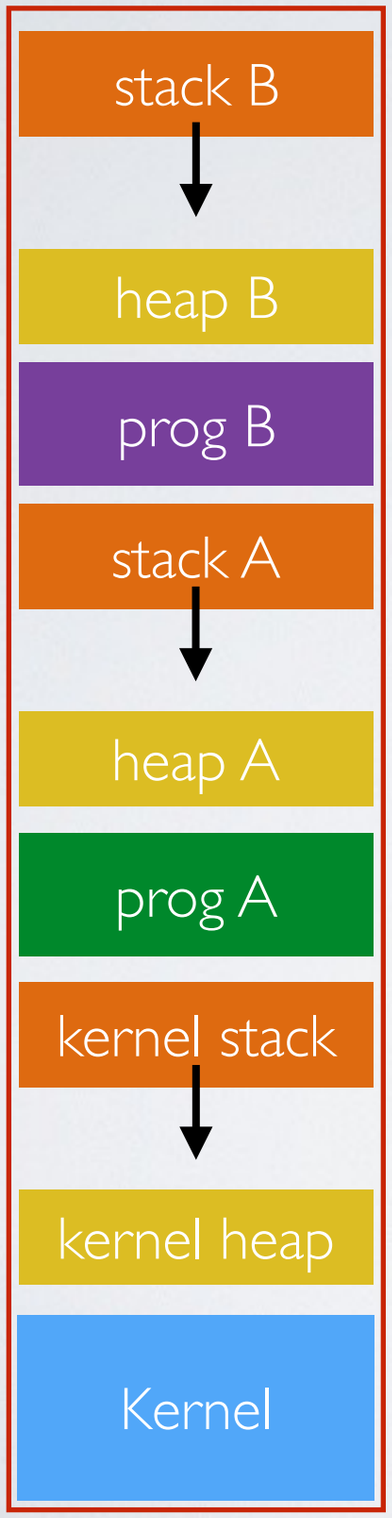
User programs must access shared resources through the kernel

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