

Department of  
Computer Engineering



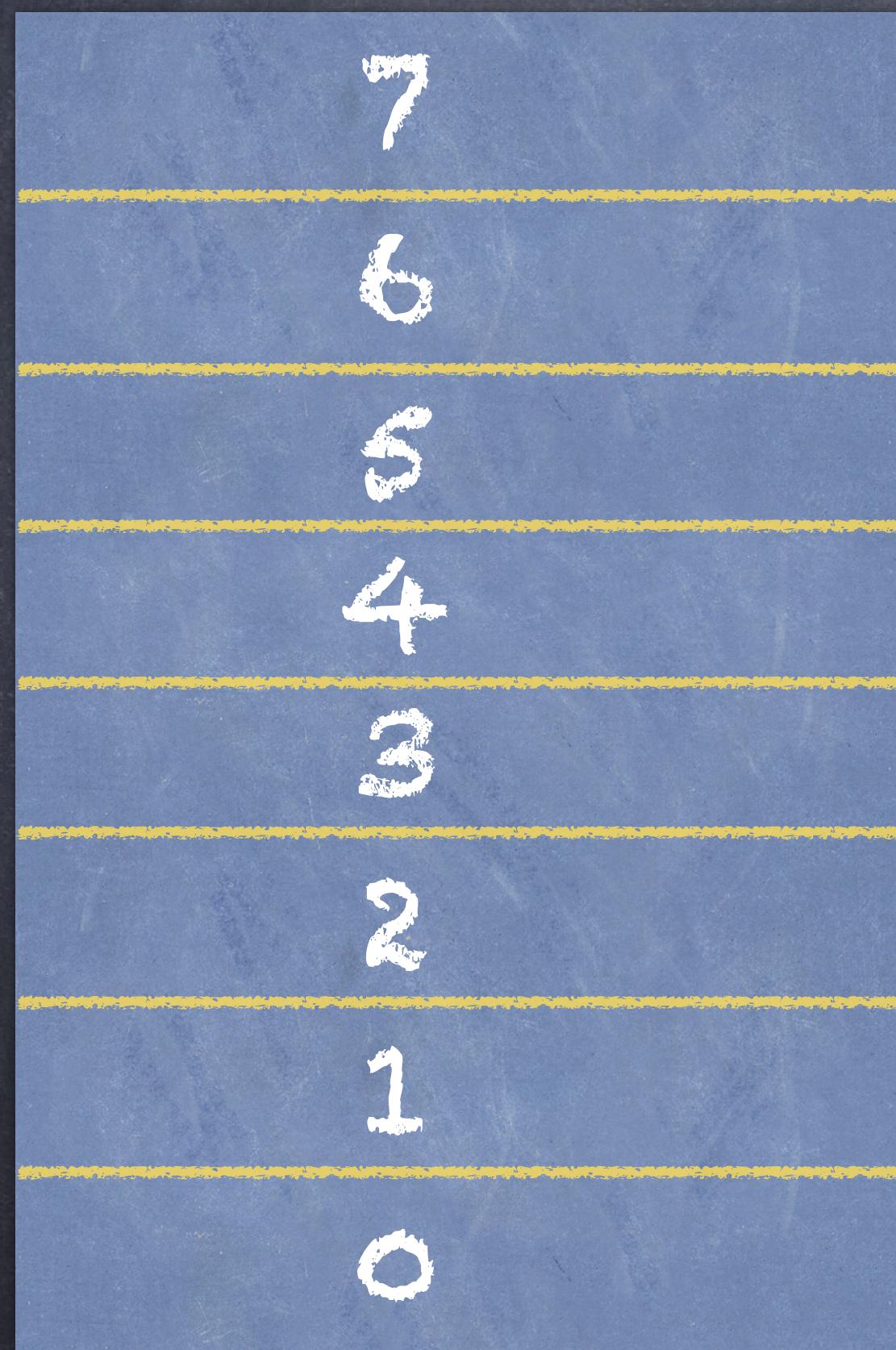
دانشگاه صنعتی امیرکبیر  
(ملی، تکنیک تهران)

# Xv6 operating system

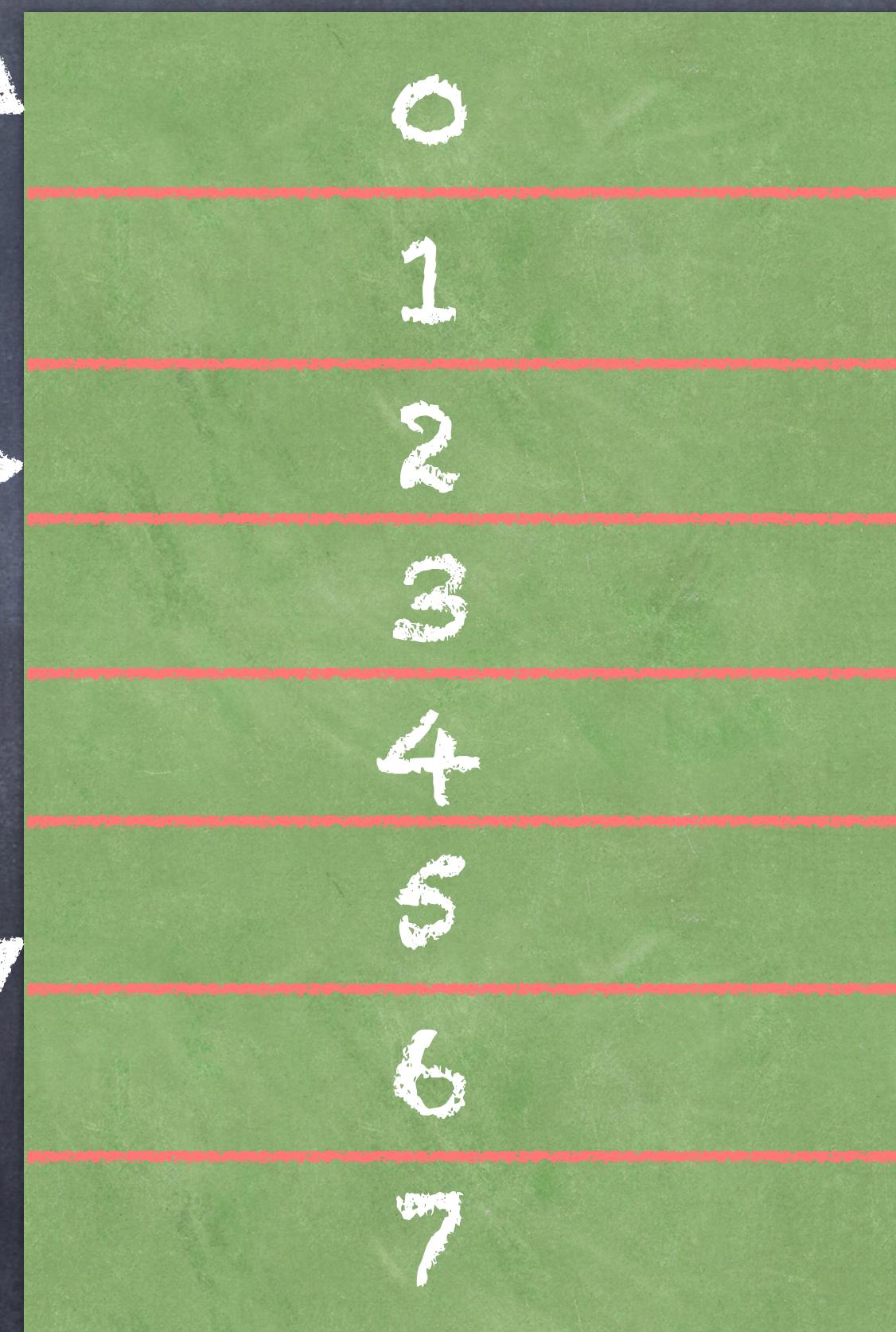
By Mahan Ahmadvand

# Virtual memory

Virtual memory



Physical memory

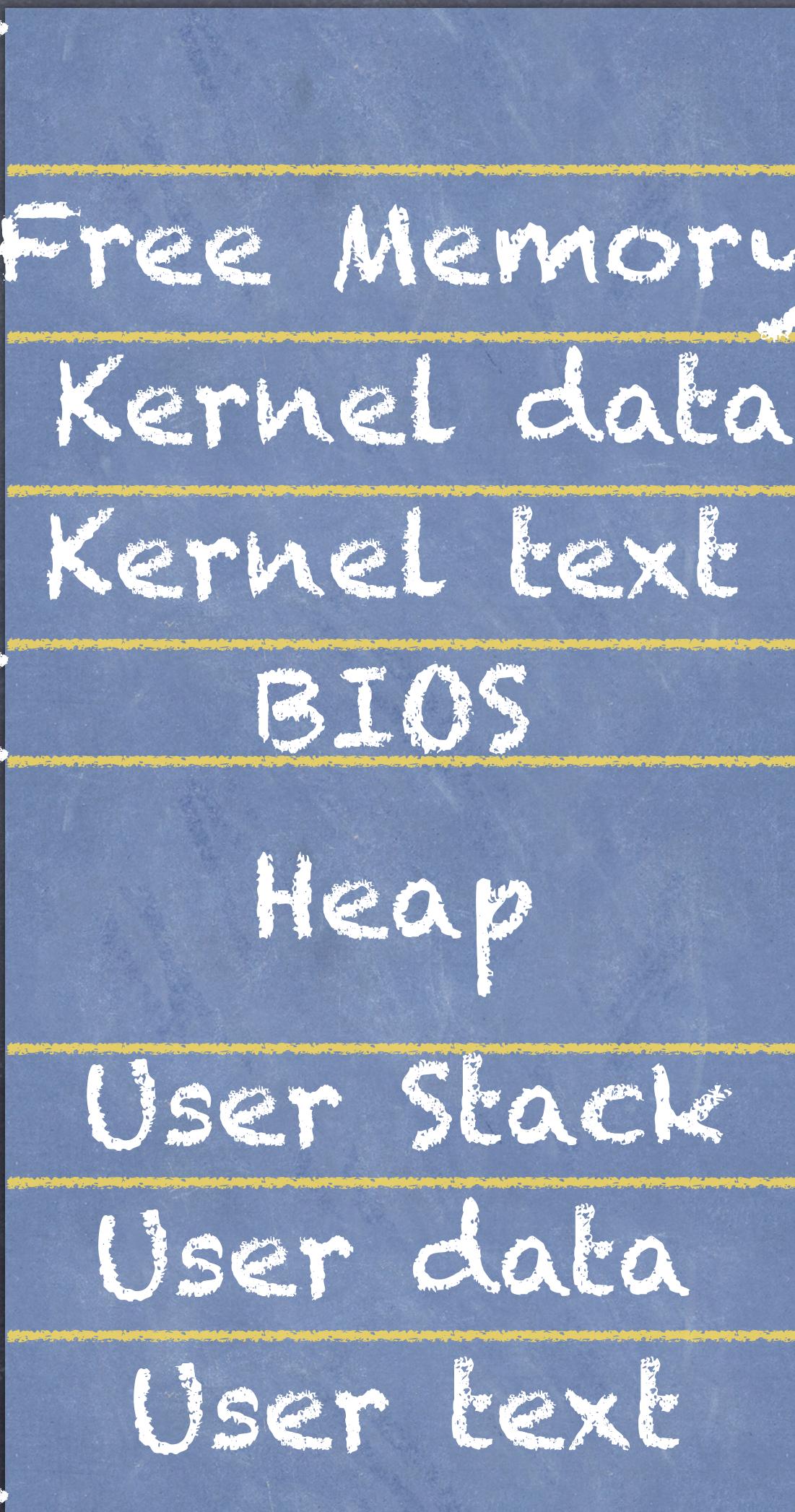


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# Xv6 memory layout

0xFFFFFFFF →



0x80100000 →

0x80000000 →



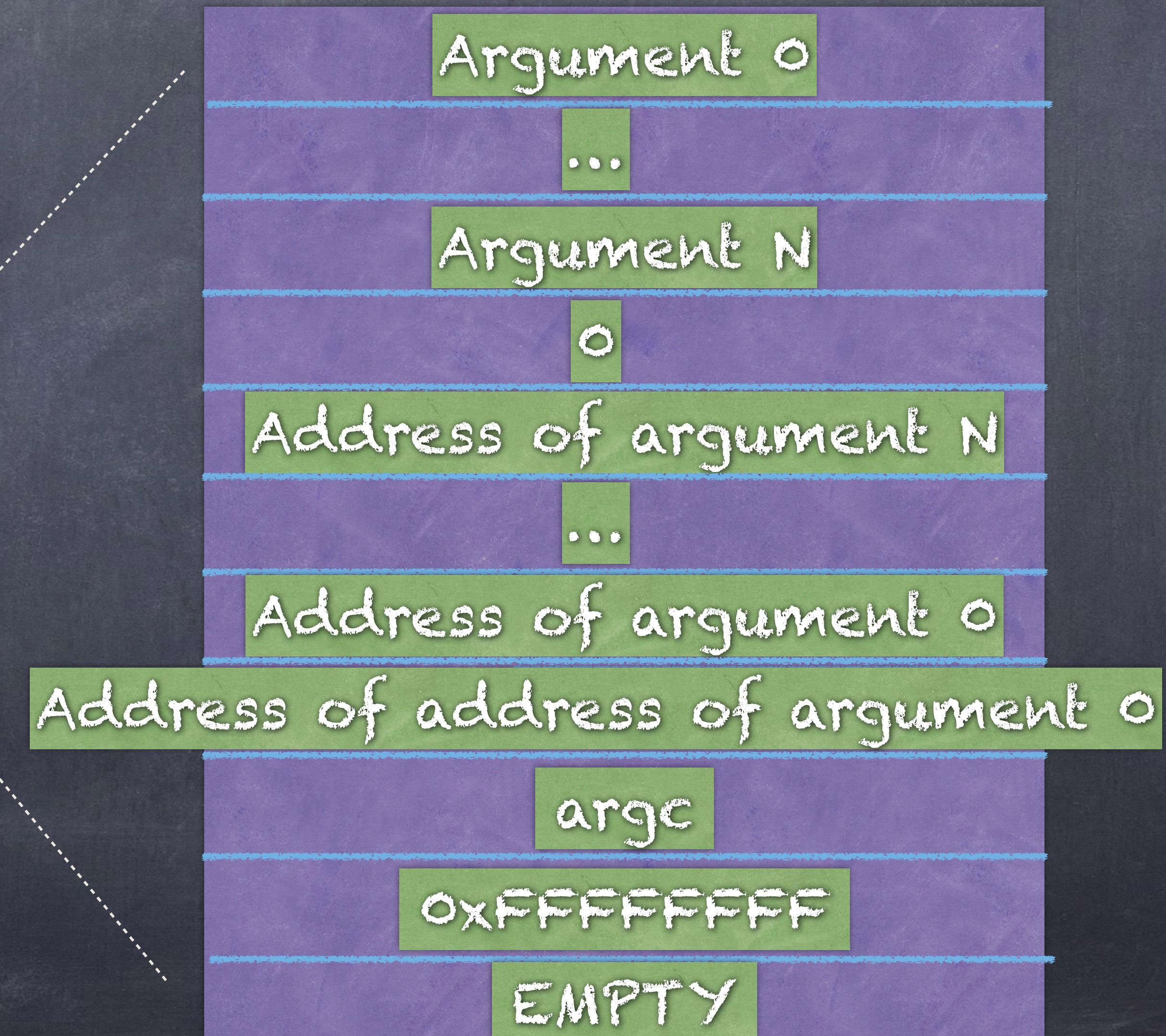
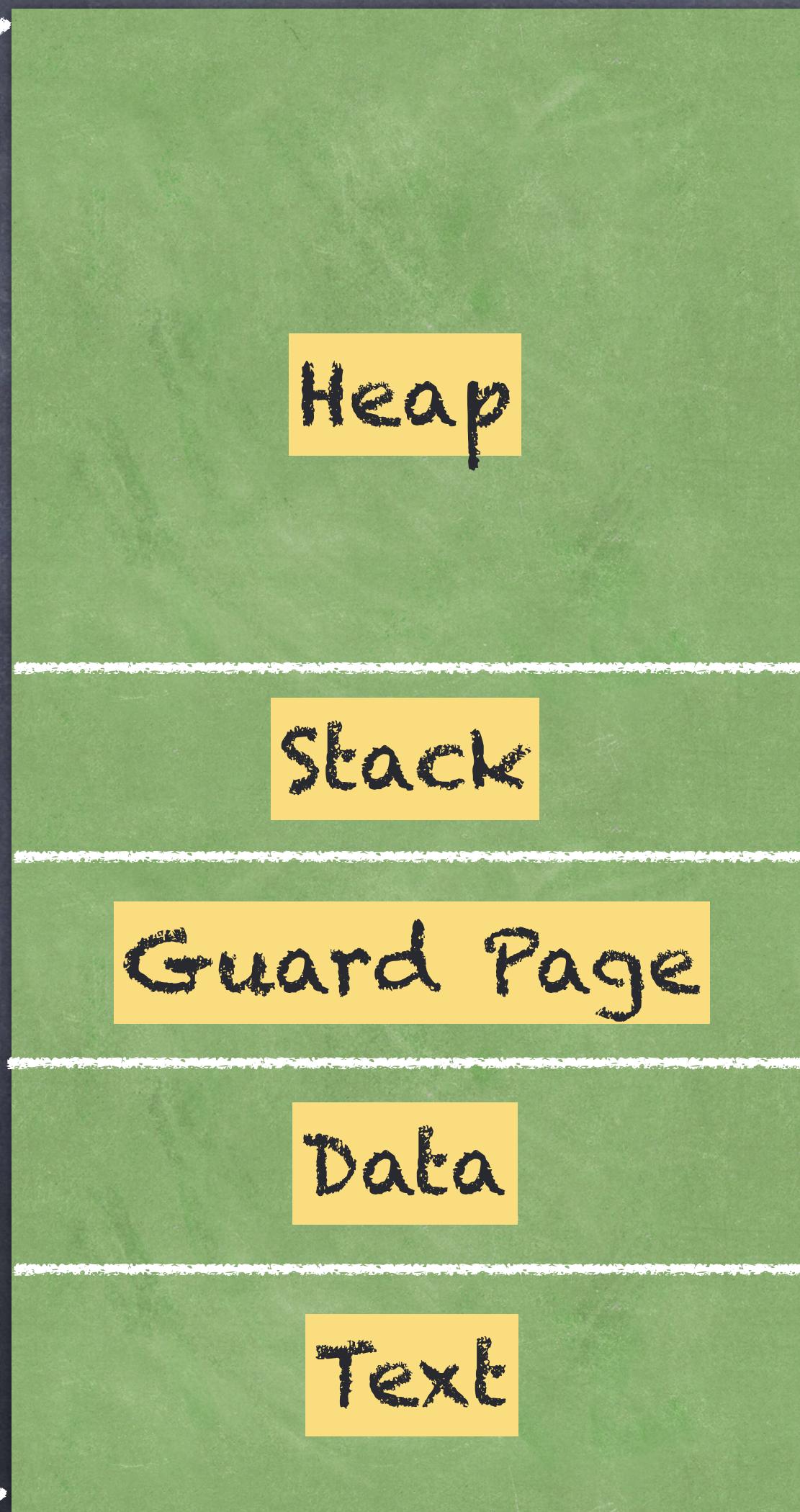
Kernel

User

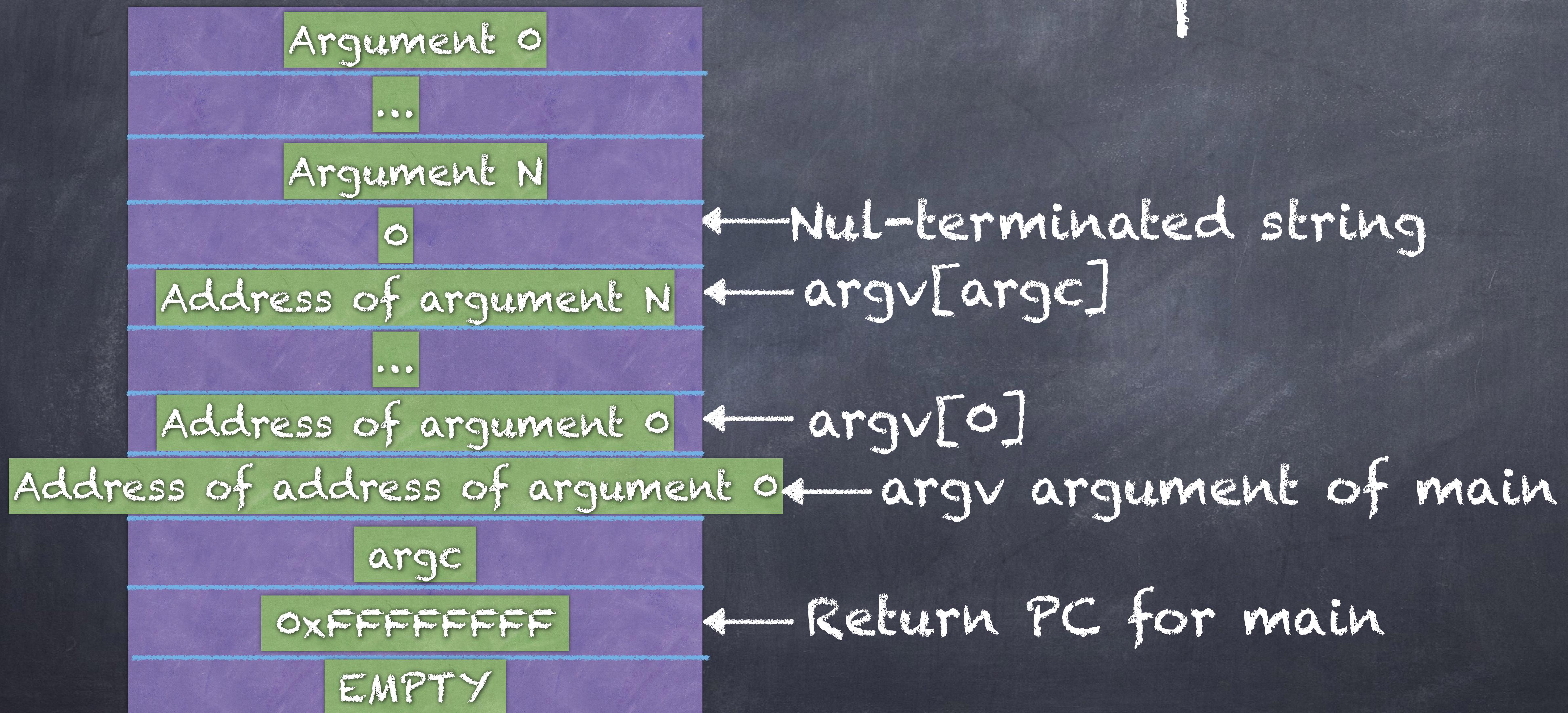
# Xv6 user address space

Kernbase →

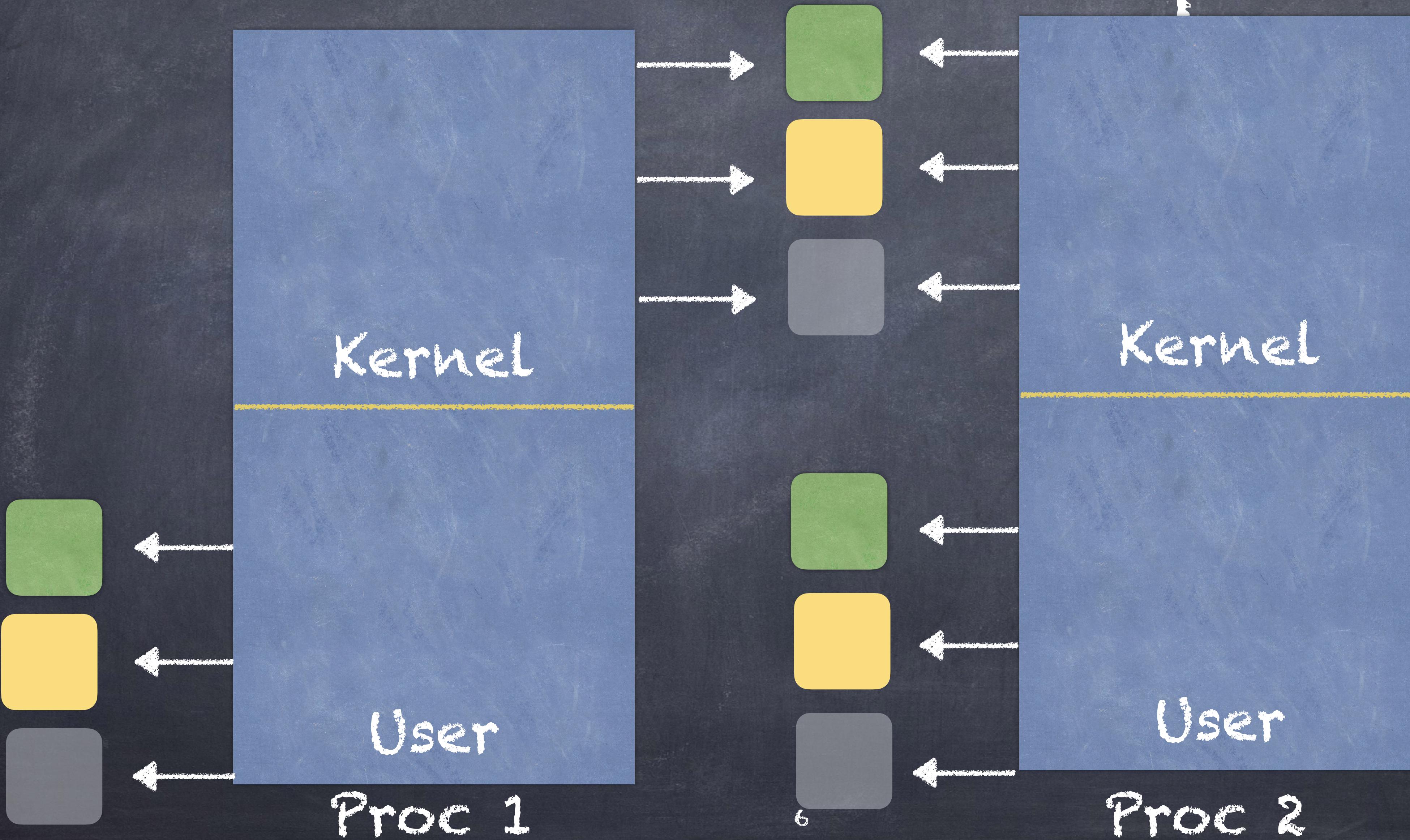
PAGESIZE



# Xv6 user address space



# Process address space



# For more information

- Read chapter 2 of xv6 a simple, Unix-like teaching operating system



**xv6**

a simple, Unix-like teaching operating system

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