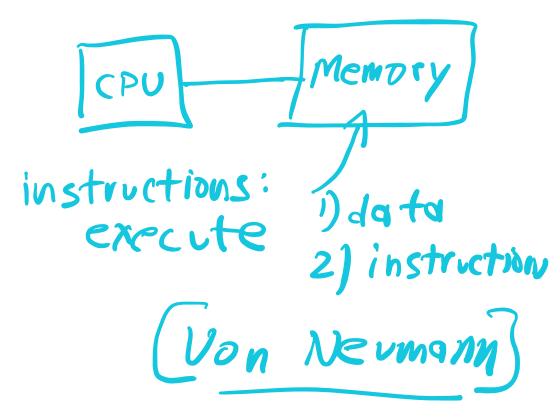
CS 537 (=

Remzi) Arpaci-Dusseau

Today:

- =) How do competers work? (Background)
- =) What is an Os?
- => How does this class work 2
- =) Final words

=) How do computers work? (Background)



Program: Memory of
a program

Address Space
(bunch
(bunch
of
bytes)

Memory of
a program
(explicit)
malloc
free

=) address (number) stack implicit int f () { int x, y; volatile displays, Disk e persistent other (non - vo latile) devices hard drive, Flash SSD

=> what is an <u>05?</u> Virtualization Turn one physical "thing" into many virtual ones an illusion # Virtualize: S CPU (Memory Each "process" (puogram) has illusion of 14s

own CPU + own memory #Z oncurrency

counter++; counter++;

load => Reg

add => 7, Reg

Store => mem

#3) Persistence

what is an OS?

"virtual machine"

(easy to use)

=) performance security

=) How does this class work? =) web page