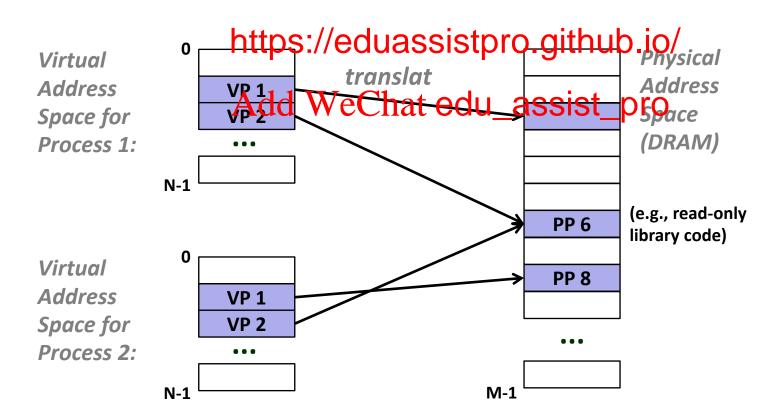
VM as a Tool for Memory Management

- Key idea: each process has its own virtual address space
 - It can view memory as a simple linear array
 - Mapping function scatters addresses through physical memory
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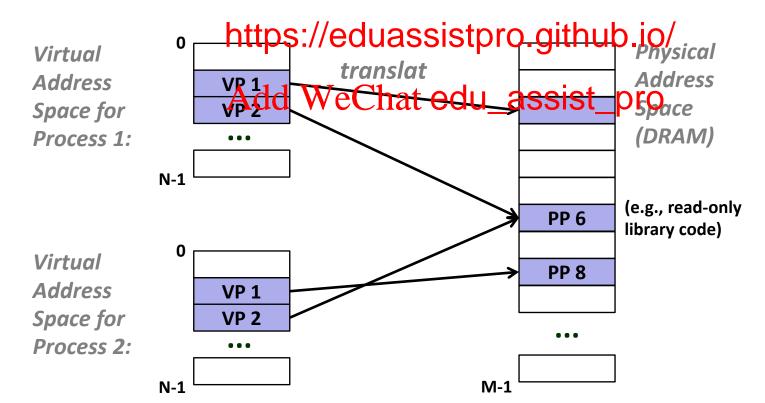
VM as a Tool for Memory Management

- Memory allocation
 - Each virtual page can be mapped to any physical page
 - A virtual page can be stored in different physical pages at different times

Sharing code and data among processes

Assignment Project Exam Help

Map virtual pages to the same physical page (here: PP 6)



VM as a Tool for Memory Protection

- Extend PTEs with permission bits
- Page fault handler checks these before remapping
 - If violated, send process SIGSEGV (segmentation fault)

