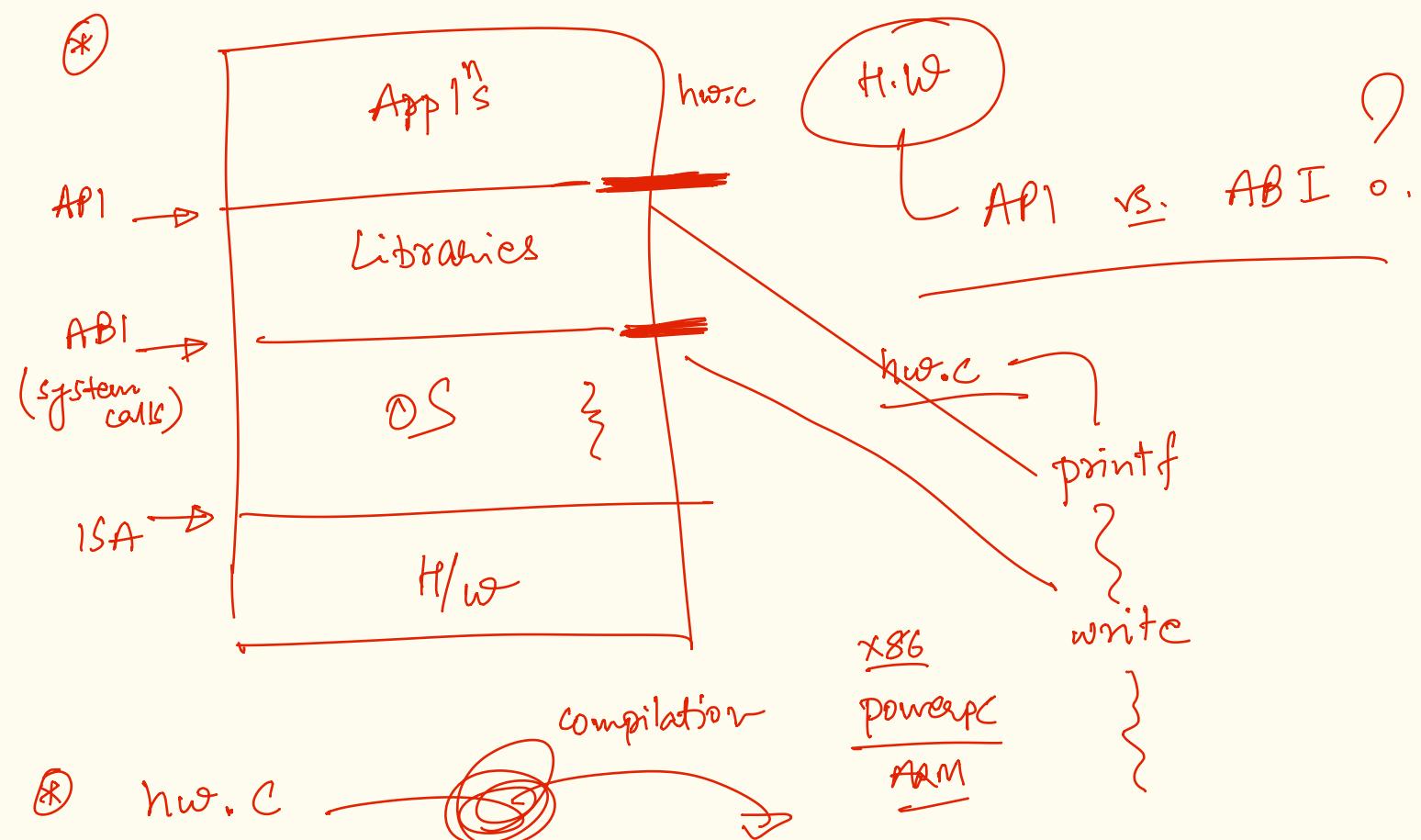


④ abstractions, are key for world peace!

↳ OS is key for world peace.

↳ OS is key for all generalized computing.



#include <stdio.h>

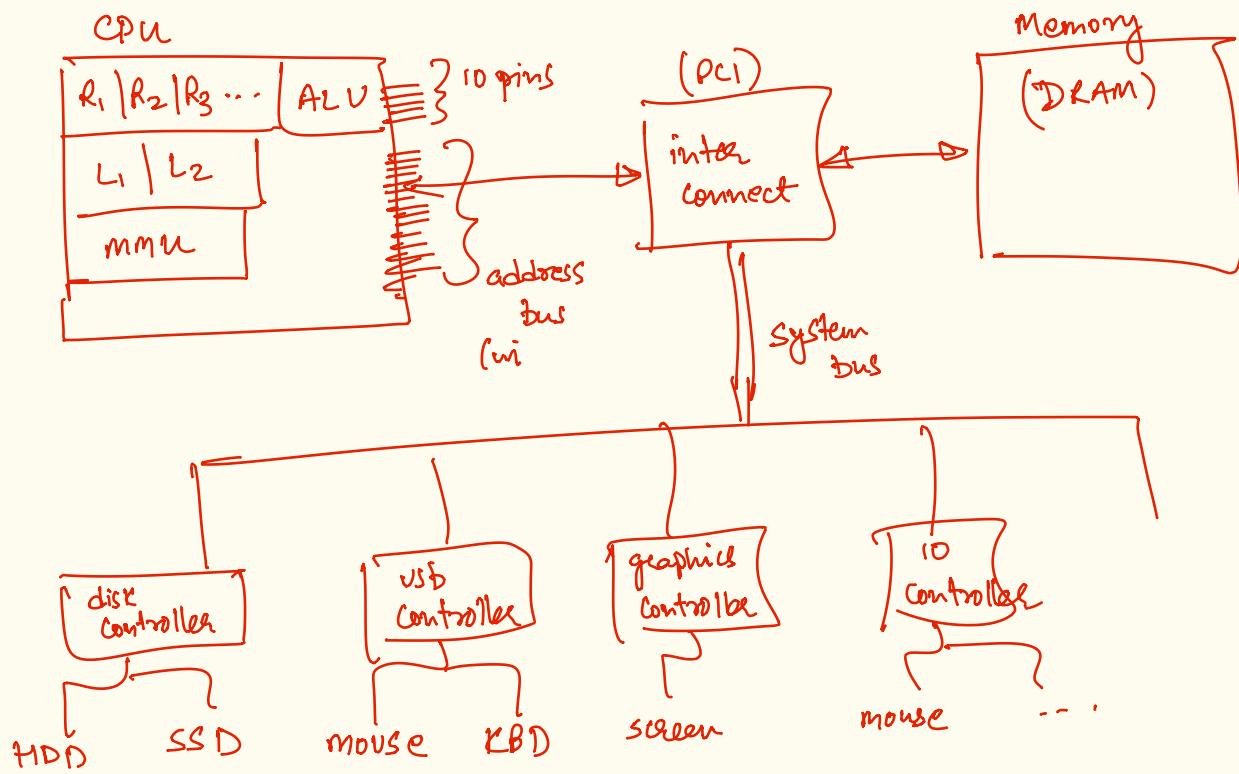
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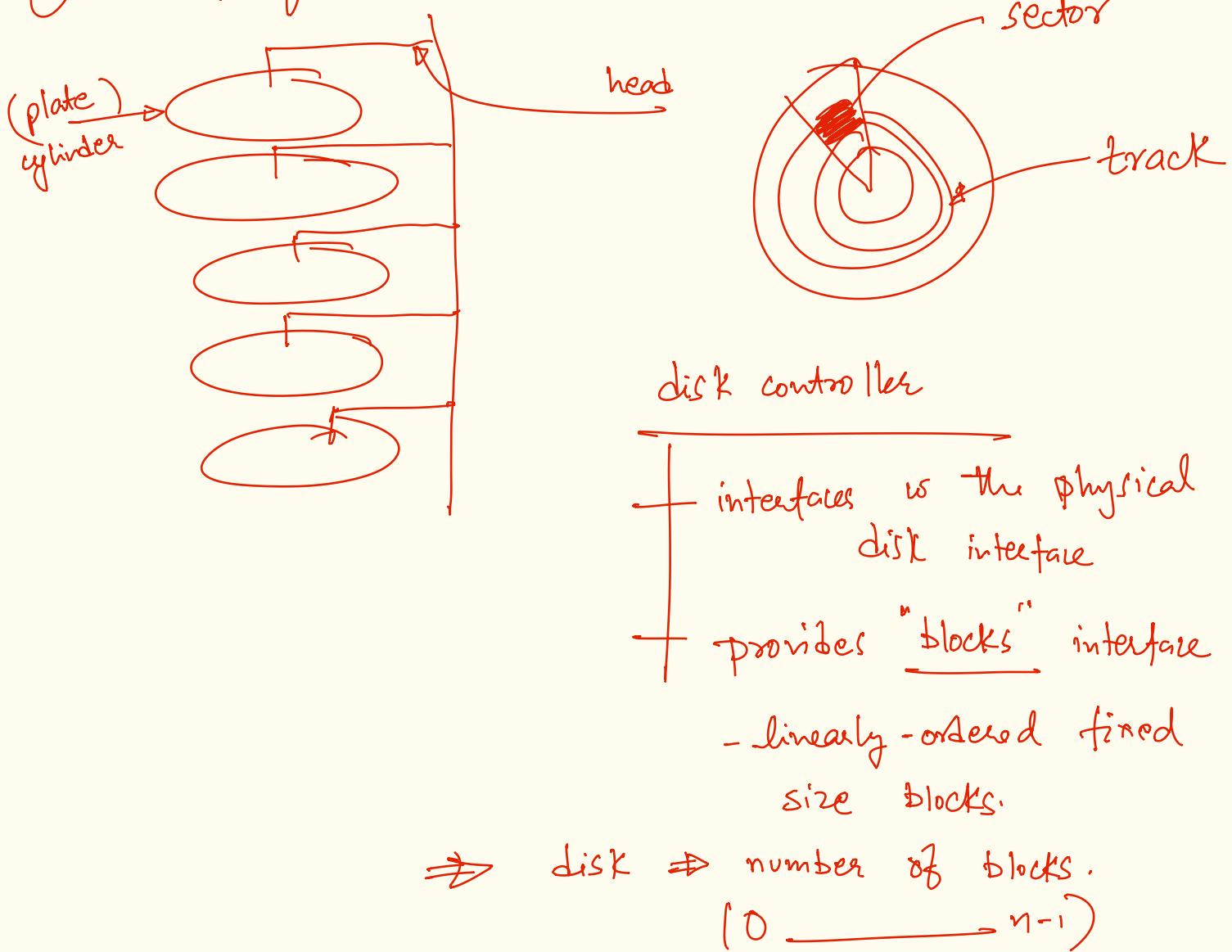
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* Simplified view of the machine (architecture view)



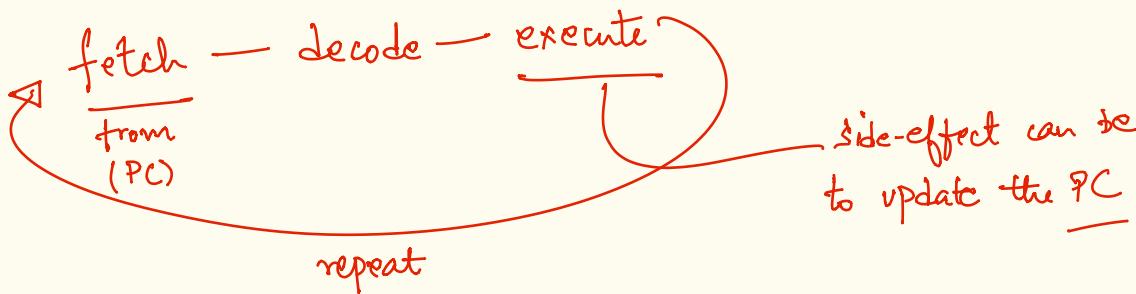
* HDD / magnetic disk drive



CPU's ISA: ~ describing / specifying capabilities of a CPU

- + instructions
- + registers
- + caches / TLB
- + address-width
- :

② PC / IP ~ program counter
inf'. pointer
points to the
next location in memory
to fetch instruction.



③ instructions (program) & data
are stored in the same memory.

OS requirements / LOR ~

- ~ useful abstractions
- ~ efficient usage of resources.
 - ↳ creation interference
 - ↳ handling.
- ~ robust error / failure handling.
- ~ isolation
- ~ multi-hardware support.
- ~ extendable