

what is an OS?

~ helps us communicate w/ a machine

~ manages the operations.

~ Slw is a manager of all applications

~ manager of h/w resources
memory, CPU, disk, network

~ Slw that interfaces w/ the hardware

systems / system software

- software / set of tools to enable computing services
appl's
logic

e.g.
- compiler

- interpreters

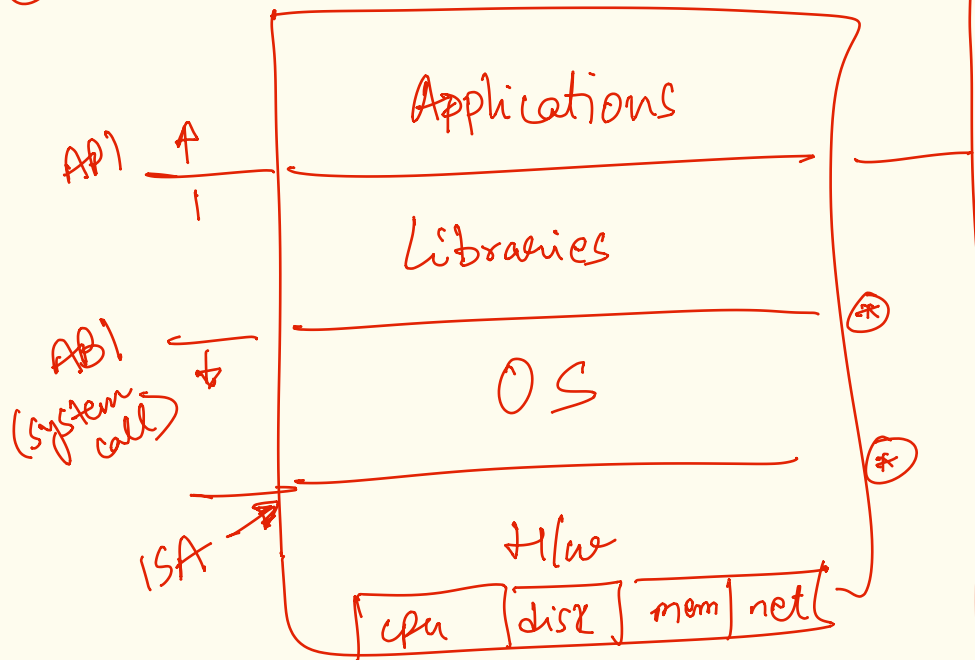
- operating system

- parsers

- device drivers.

...

②



③ what does an OS do?

actions / primitives

~ scheduling < 10 appl's.

~ memory mgmt.

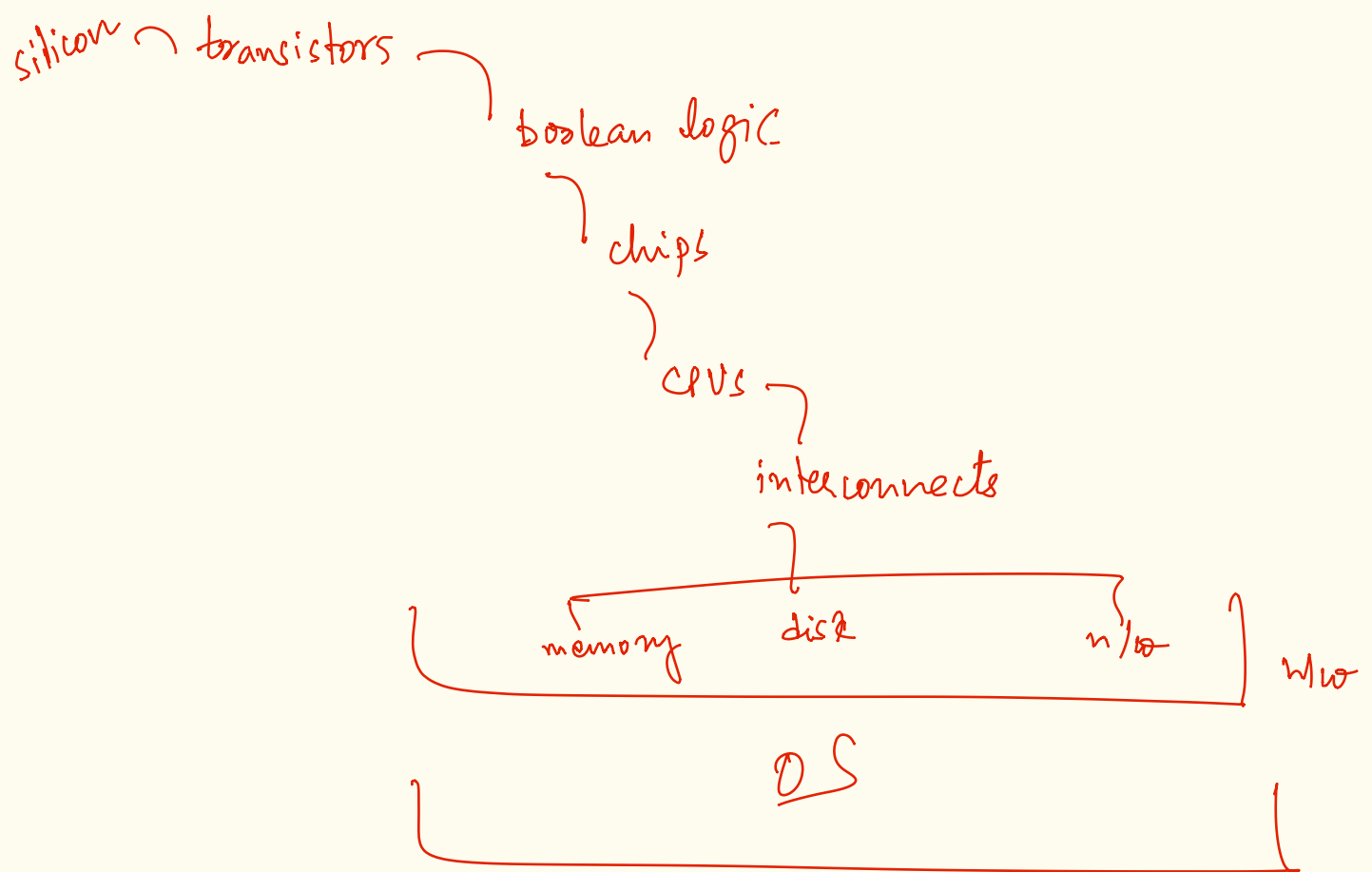
alloc / dealloc

~ 10 interfacing

~ power mgmt.

~ start / stop / pause programs

why an OS?



① abstractions ——— Key to the
computing world
⇒ world peace!

~ functionality/services defined/described/made available
by one entity and used/consumed by a
different entity.

~ implementation details
are not of concern to the user.

~ capabilities are defined via an interface