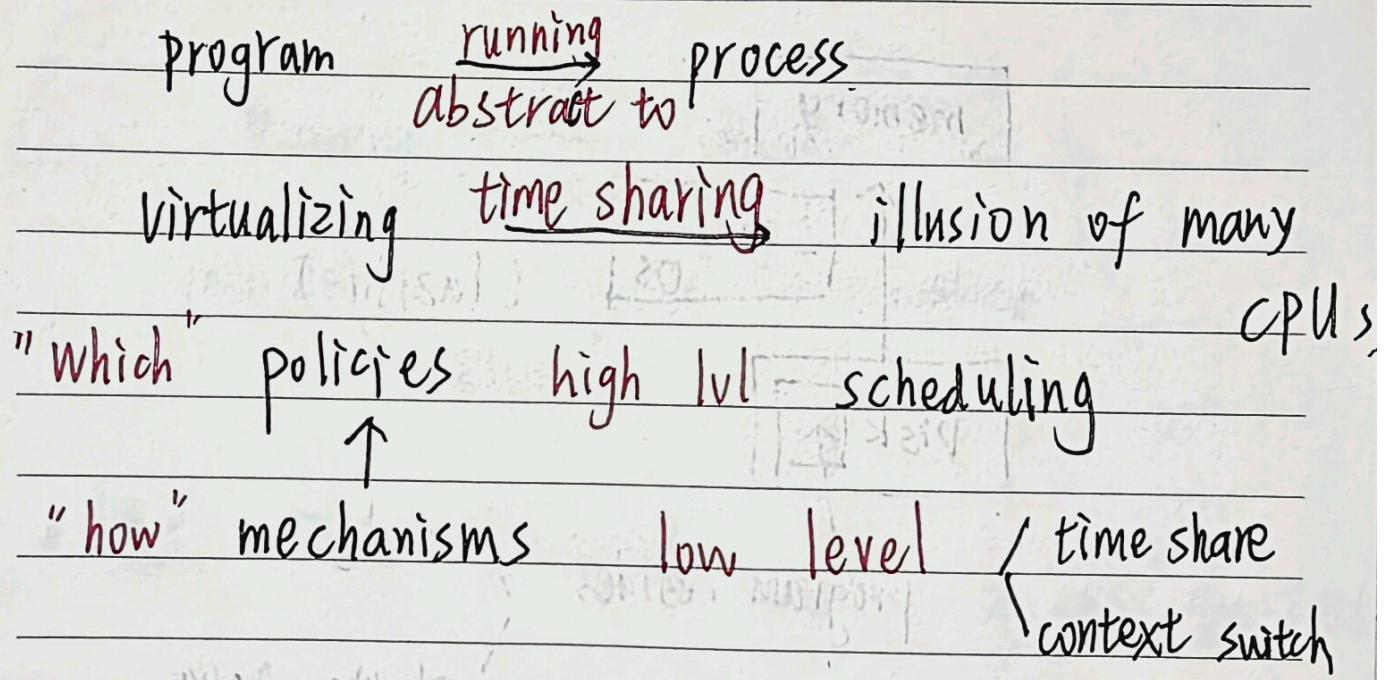
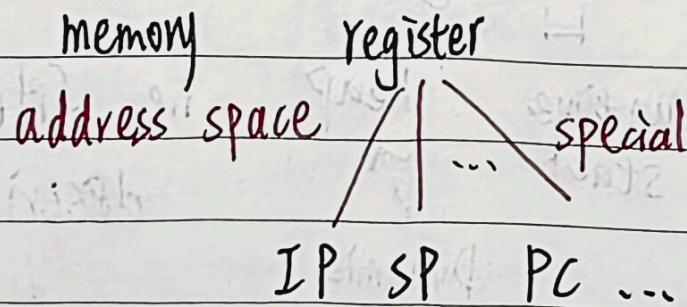


## § 4. PROCESS



- 4.1 machine state



- 4.2 process API

create()  $\leftrightarrow$  destroy()

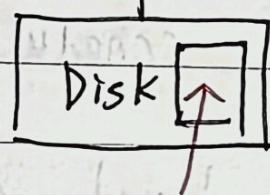
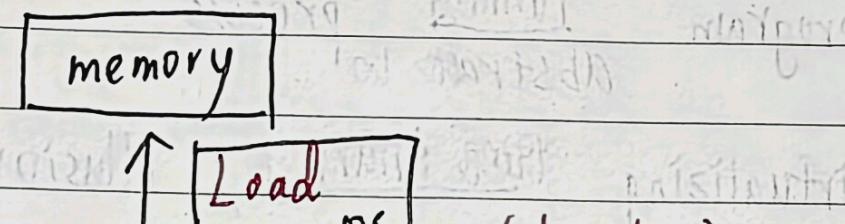
wait()

status()

suspend()

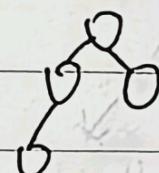
resume()

### o 4.3 create() in detail.



program resides

Init



I/O

run time  
stack

heap i.e. file

descriptors

Dynamic

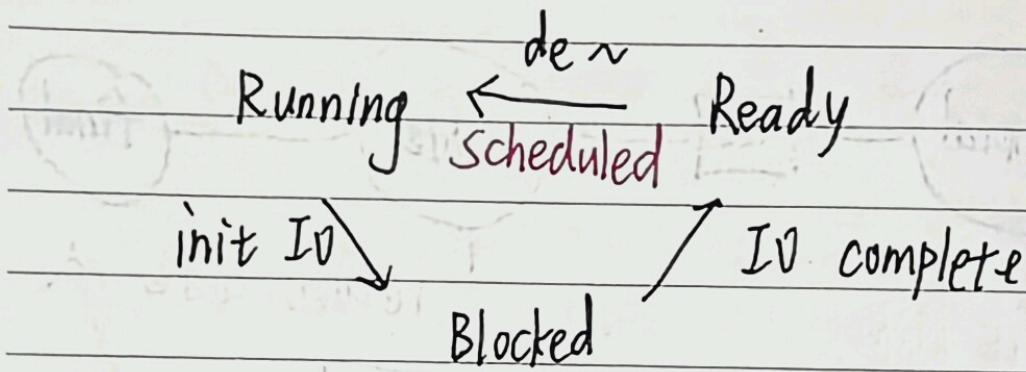
malloc()

read  
write

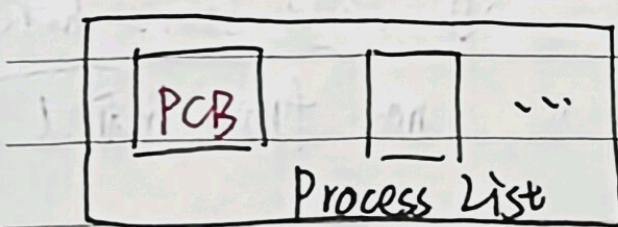
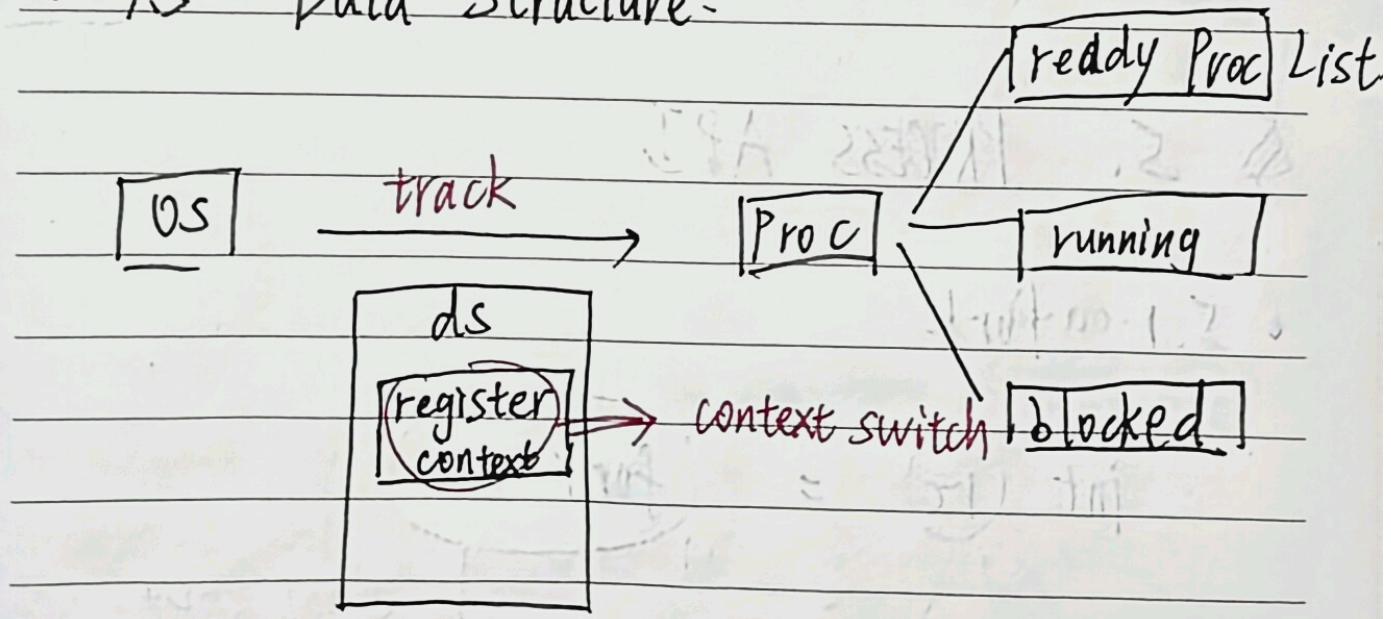
→ Start from main()

→ begin execution

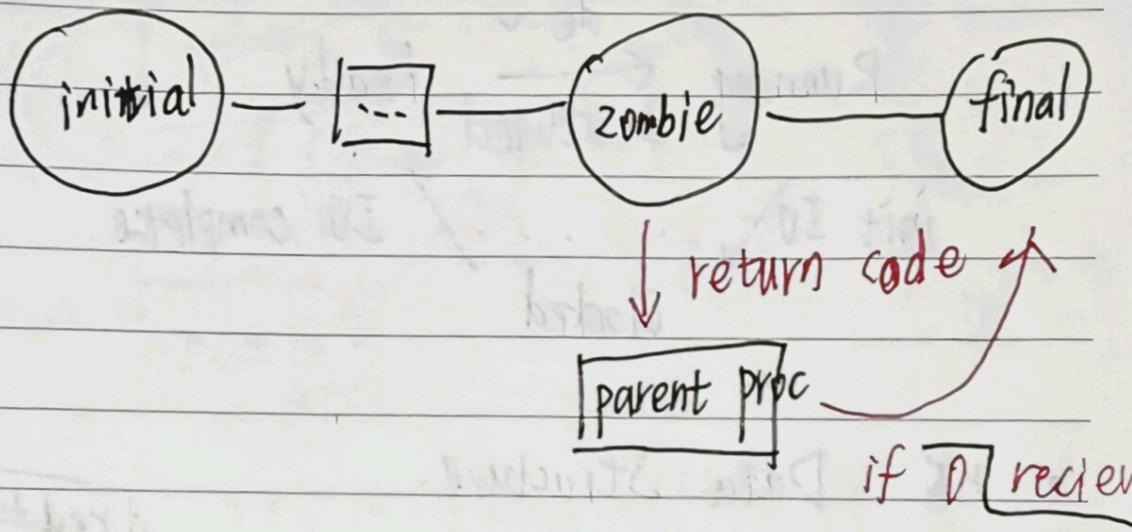
## • 4.4 Process States



## • 4.5 Data Structure

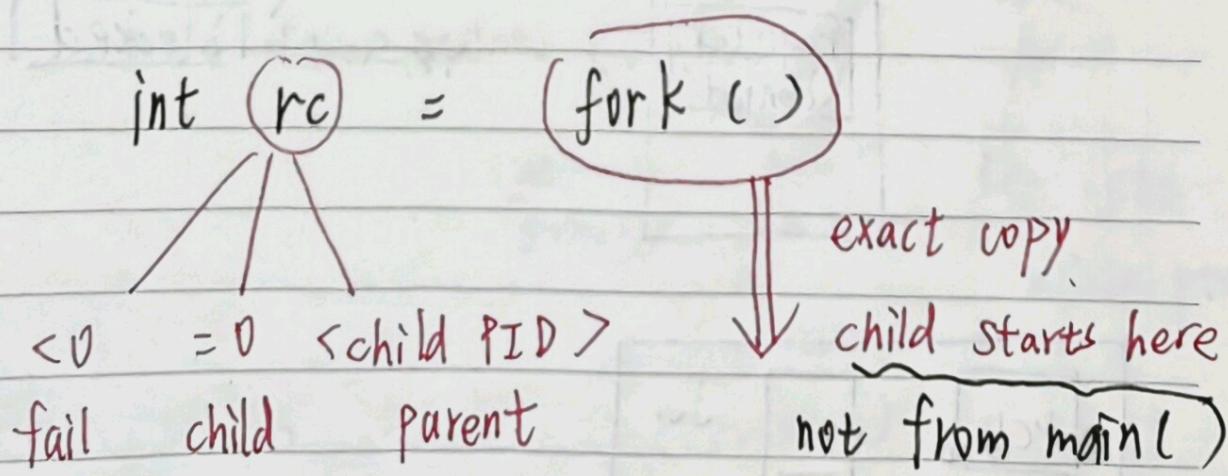


\* 4.45 . XV6 process states



## § 5. PROCESS API

### • 5.1 fork



CPU scheduler is complex

→ non determinism order → Wait()