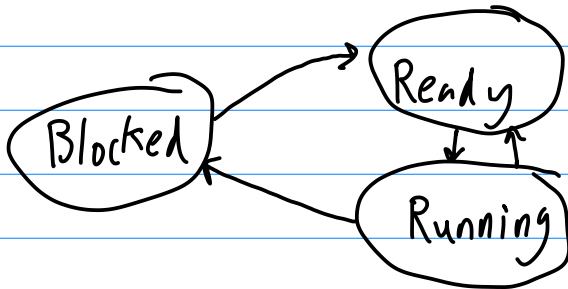
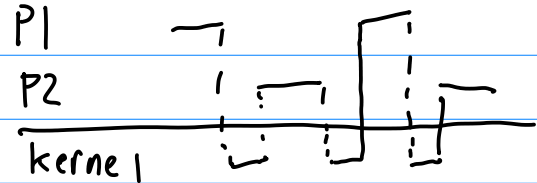
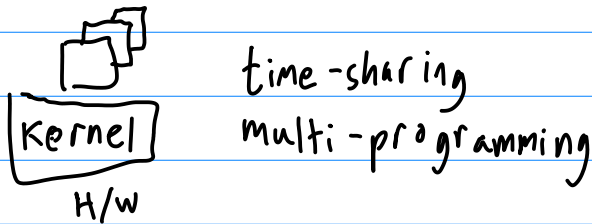


Ex 1 is out

Recap: Process: OS abstraction for running program



Programmers don't control scheduling!

```

    ↪ start
    int main() {

```

Process Management

- creation (process + environment)
 - termination
 - exit (normal)
 - crash/kill/signals (abnormal)
- OS cleans it up (memory / fds, etc.)

- interaction
 - waiting
 - w/ user stopping C-Z / job control-
- scheduling priority (e.g., nice)
- learning about resource

OS provides API

* NULL

exit

Creating new processes

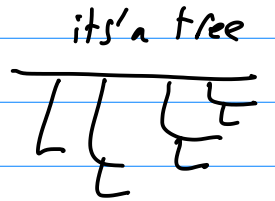
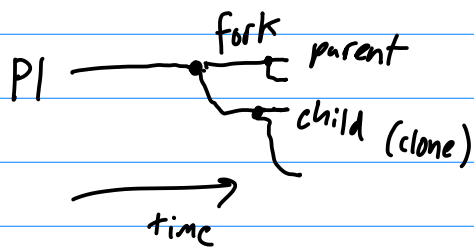
1. Create process (binary, cmd line args, environment?)

"spawn"

CreateProcessA()

posix_spawn()

2. UNIX idea: separate "new process" from "new programs"
 fork()

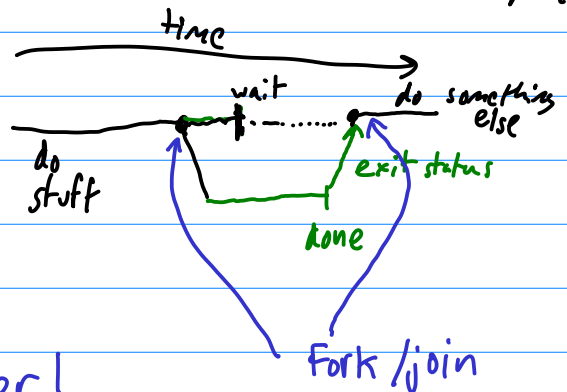
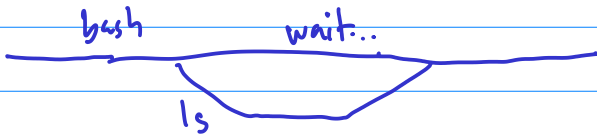


parent can have >1 child

child starts as a clone
 has its own destiny

child can have only 1 parent

wait ← parents are supposed to wait for children



don't assume anything about order!