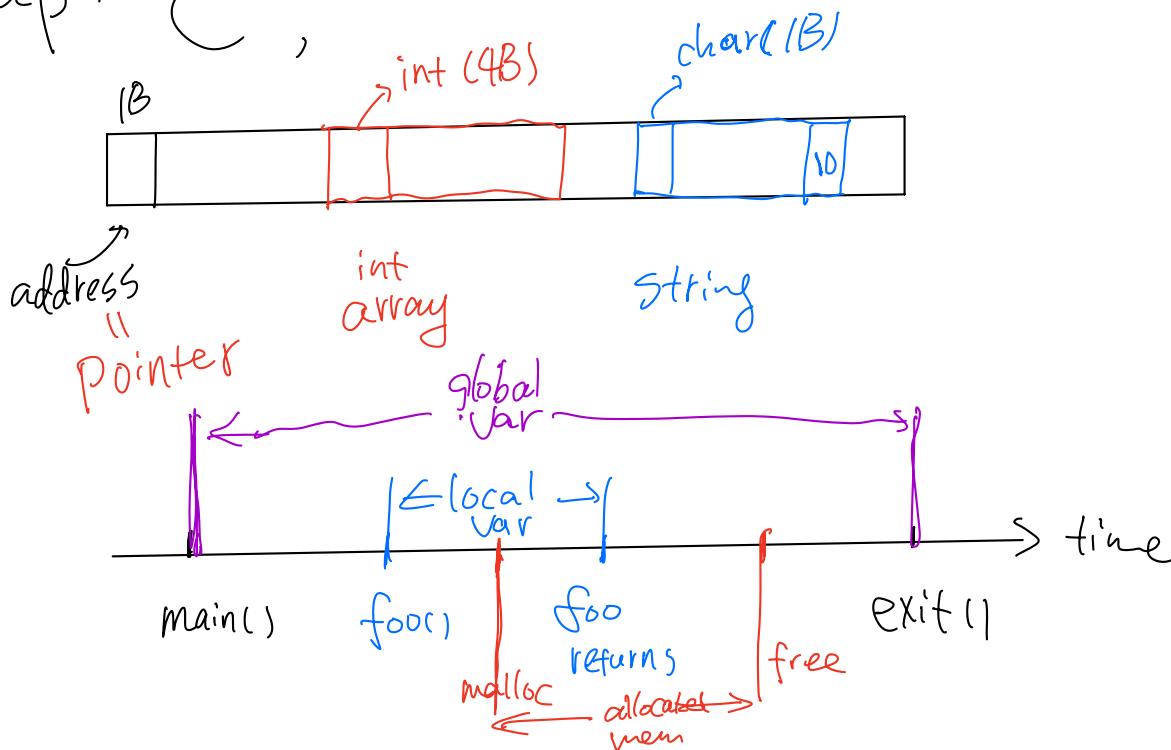
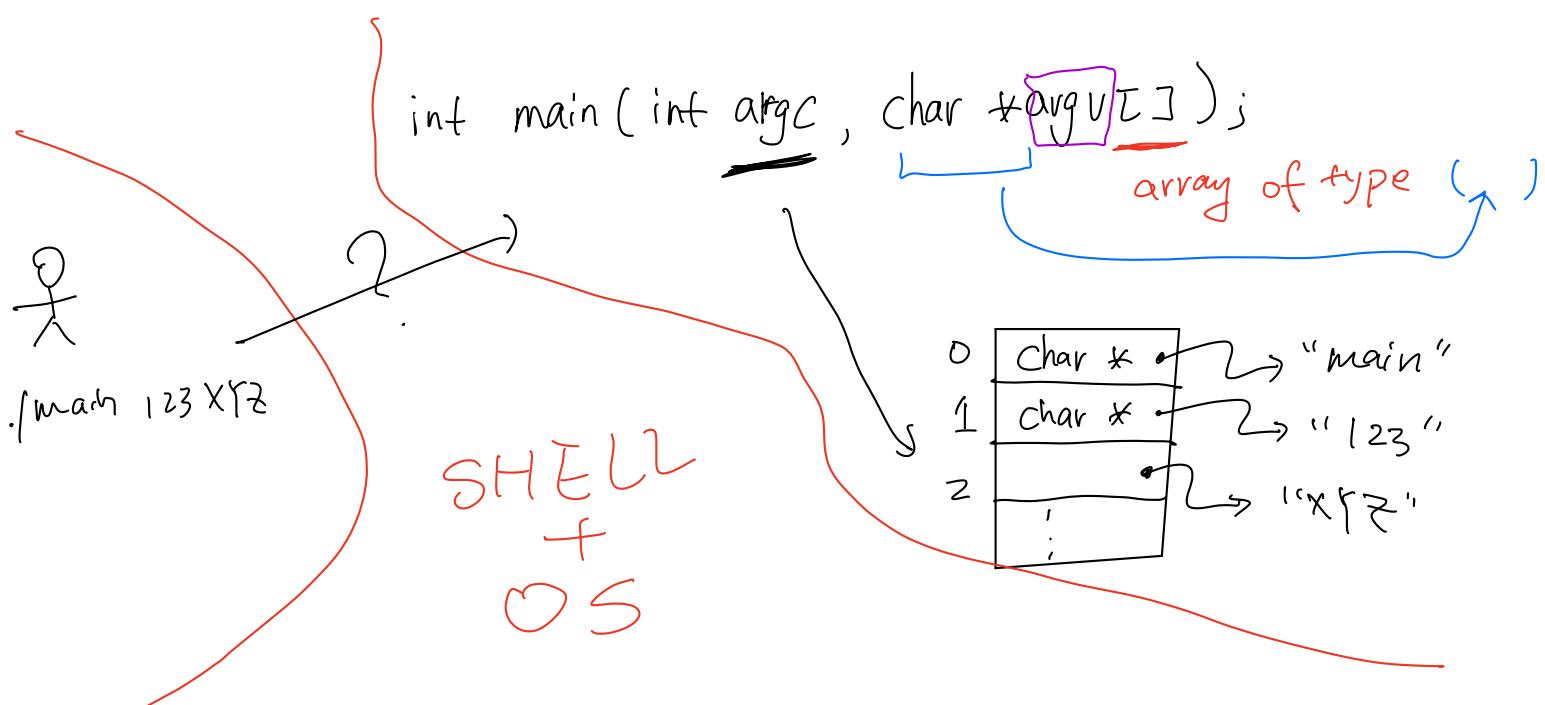


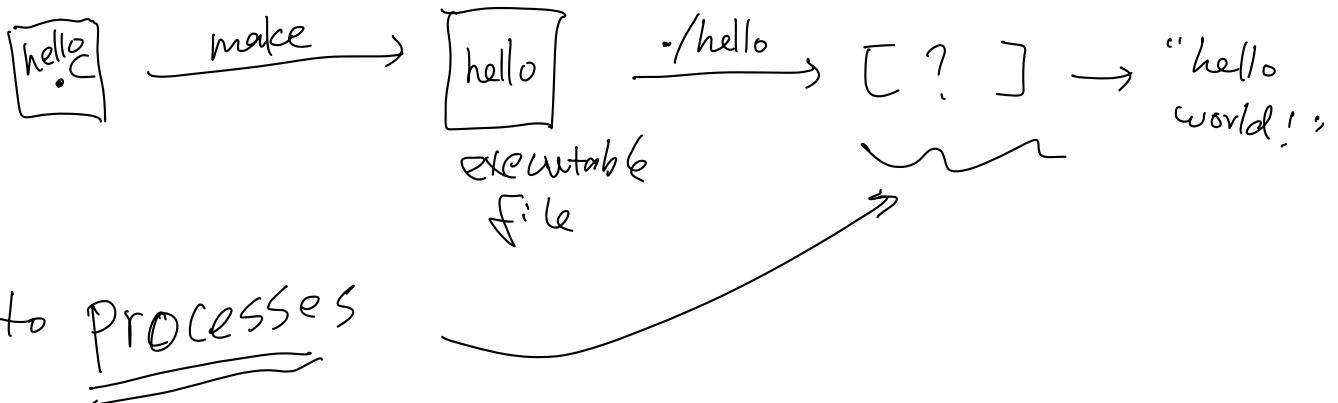
1. main function
 2. intro to processes
 3. Process's view of memory (and registers)
 4. process birth
 5. Shell crash course
 6. Shell internals, part I
 7. File descriptors
 8. Shell internals, part II
-

Recap: C,



• main

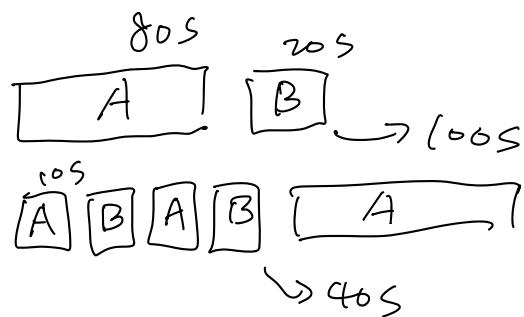
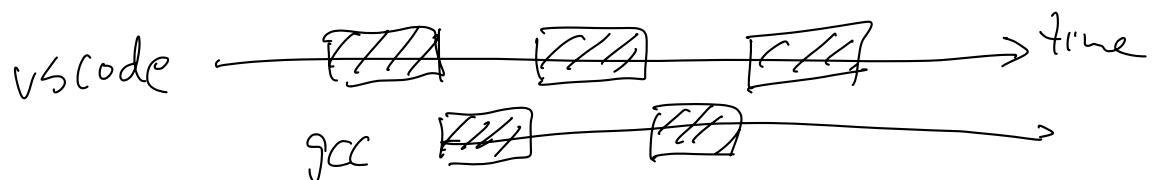




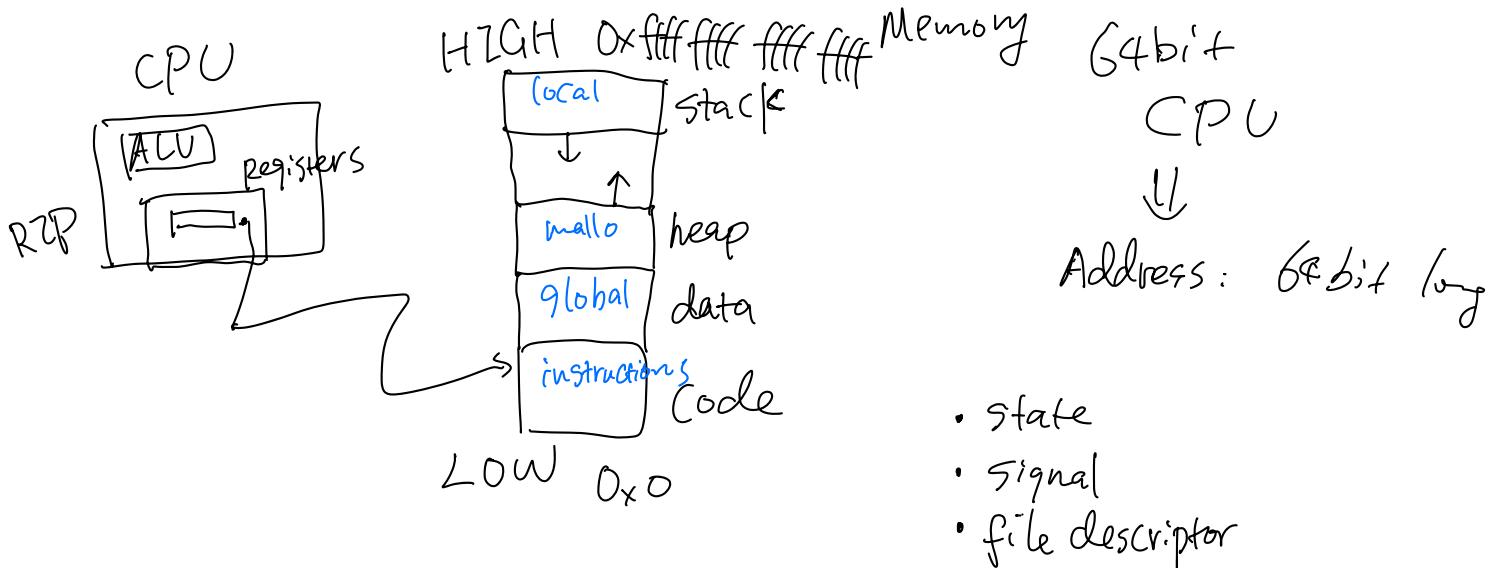
- intro to processes

① do multiple things at once

② resource efficiency

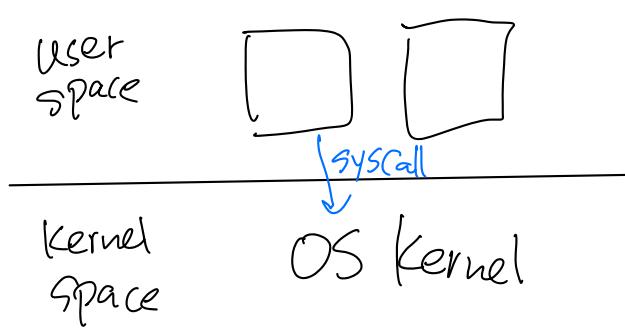


- process = running program.
= an abstract machine.



- process birth

- SysCall

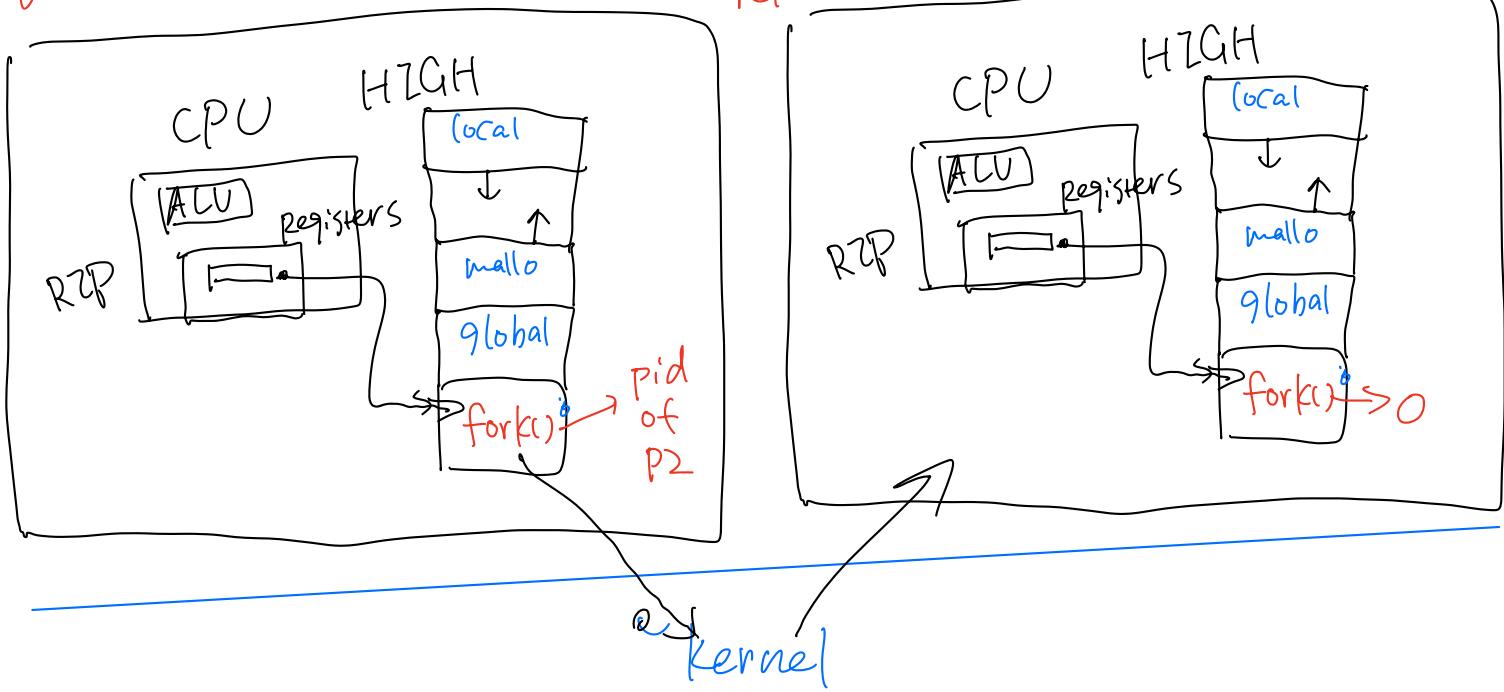


int fork();

P₁ (parent)

return value

-P2 (child)



if (fork() == 0) { // Who does x? P1 or P2

do x;

P1, P2, P2

{ else } // who do you ?

do Yi;

P₂, P₁, P₁

3

Main C1

fork()

P1

3

If $\text{ret} == 0$

```
    } else {
```

$\rightarrow \text{print}(\text{f}(w, x))$

```
if (ret == 0) {
```

```
printf("I'm child")
```

