

# CS 326-02 Processes and Pipes

Tag campuswire posts.

Project 01 feedback

Lab 04 released

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Review

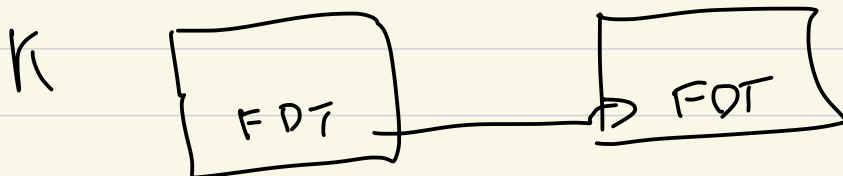
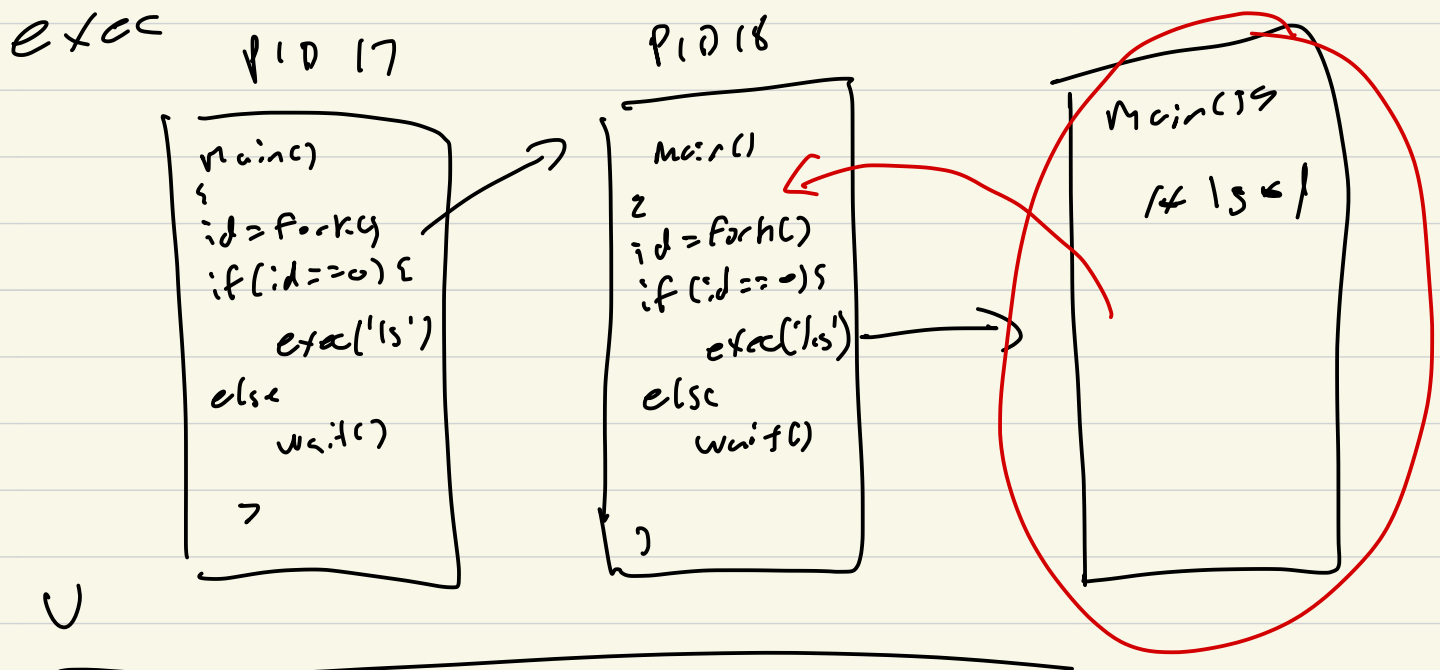
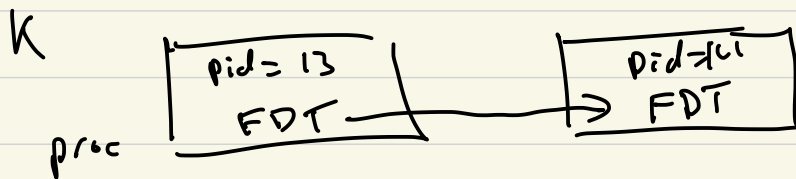
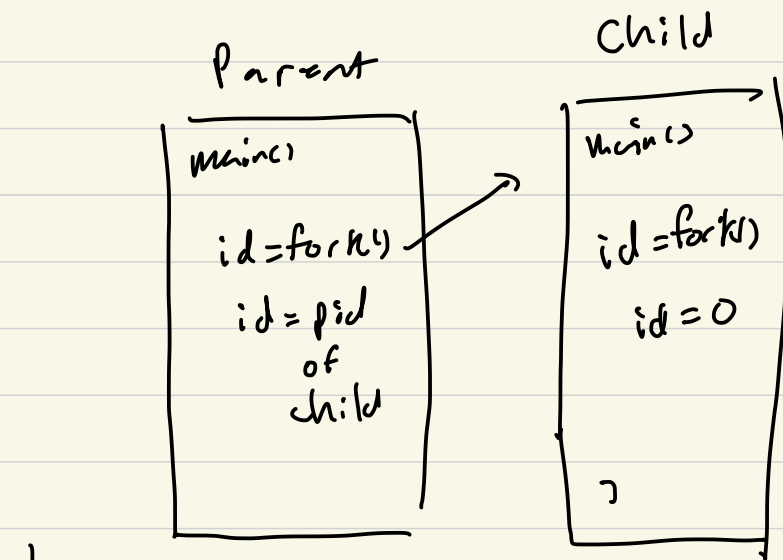
File descriptors

Processes - `fork()`, `wait()`, `exec()`

Redirection

Pipes - `pipe()`

# fork()



## Redirection

`id = fork()`

`if (id == 0) {`

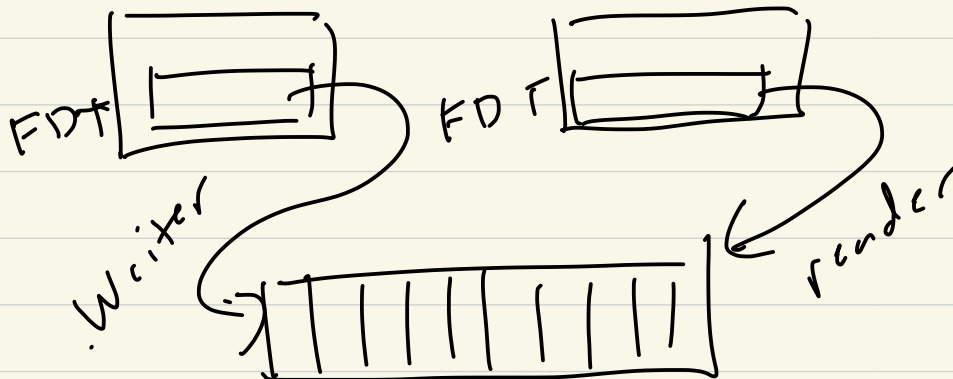
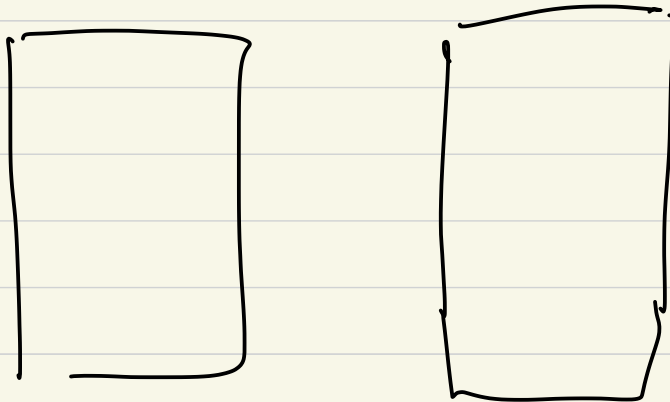
`[ manipulate  
FD TABLE ] ←`

`exec()`

`}`

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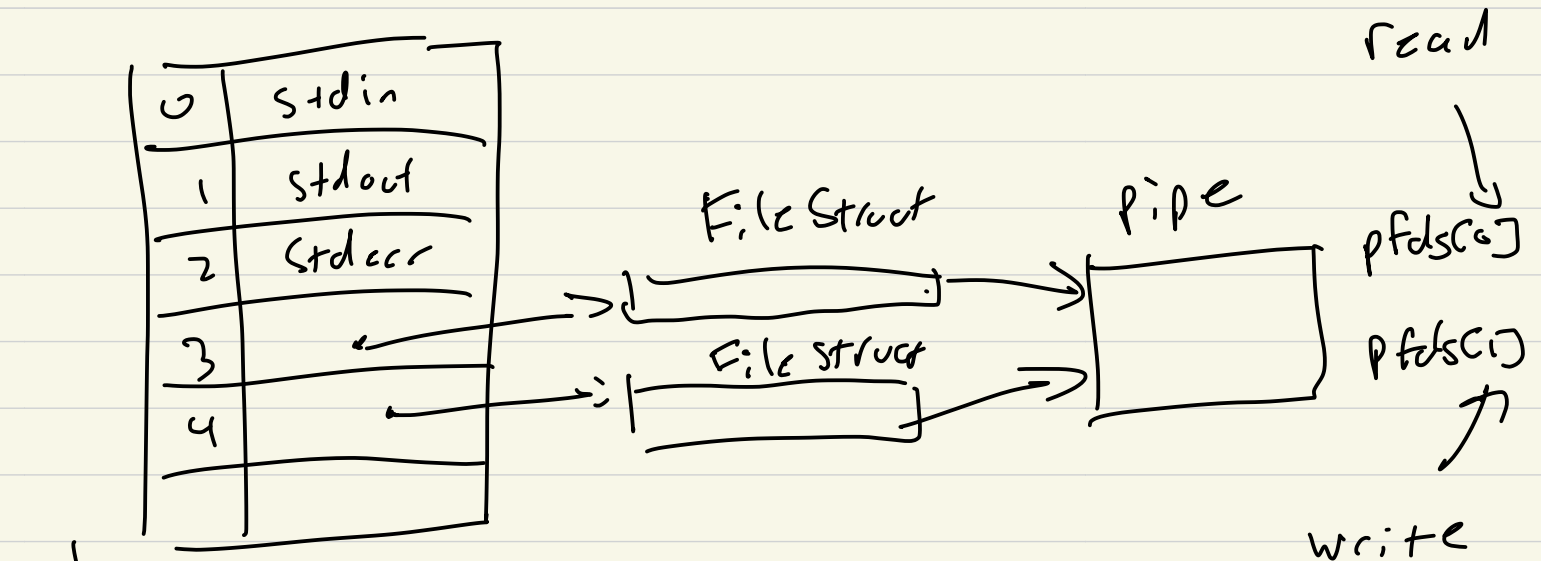
Pipes - a kernel buffer (512)



```
int pfd[2];
```

```
pipe(pfd)
```

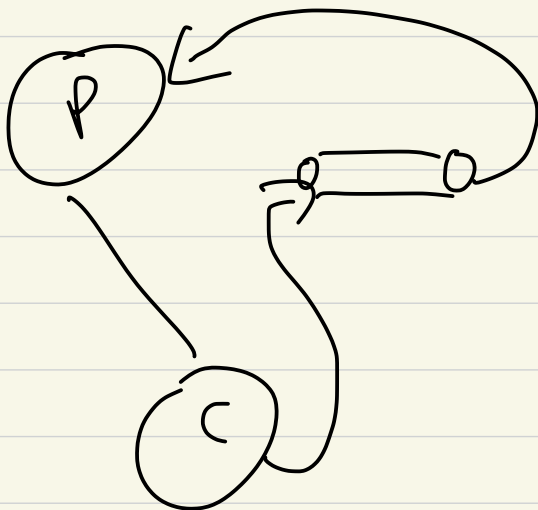
0	stdin
1	stdout
2	stderr
3	
4	



Rule

- (1) need to create pipe before fork
- (2) need to close off pipe fds not in use.

pipe.c



pipe2.c

