

# CS326-01 Lab File Descriptors

Project 01

Results

50% points back

Code quality

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✓ File Descriptors

✓ Files `open()` / `close()` / `read()` / `write()`

✓ Processes `fork()` / `exec()`

✓ Redirection `dup()`

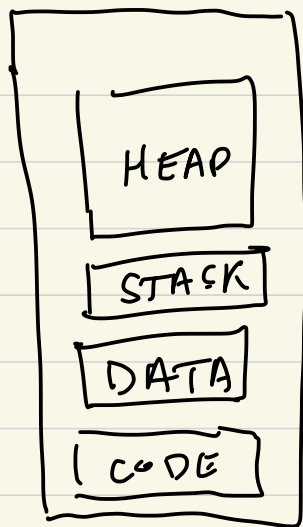
✓ Pipes `pipe()`

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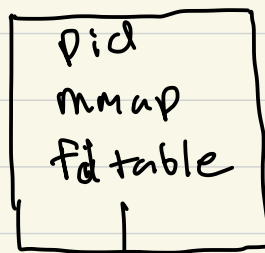
## File Descriptors

Small non-negative integers  
represent and index into the  
file descriptor table

User



Kernel  
proc

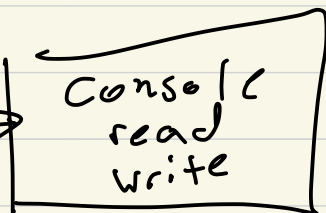
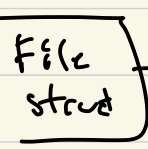
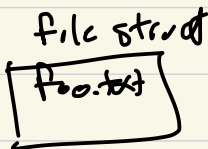
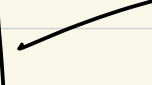
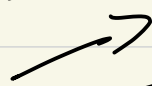
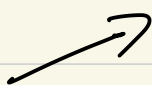


← file descriptor table

process  
control  
block



0	stdin
1	stdout
2	stderr
3	



fd = open("foo.txt", O\_RDONLY)