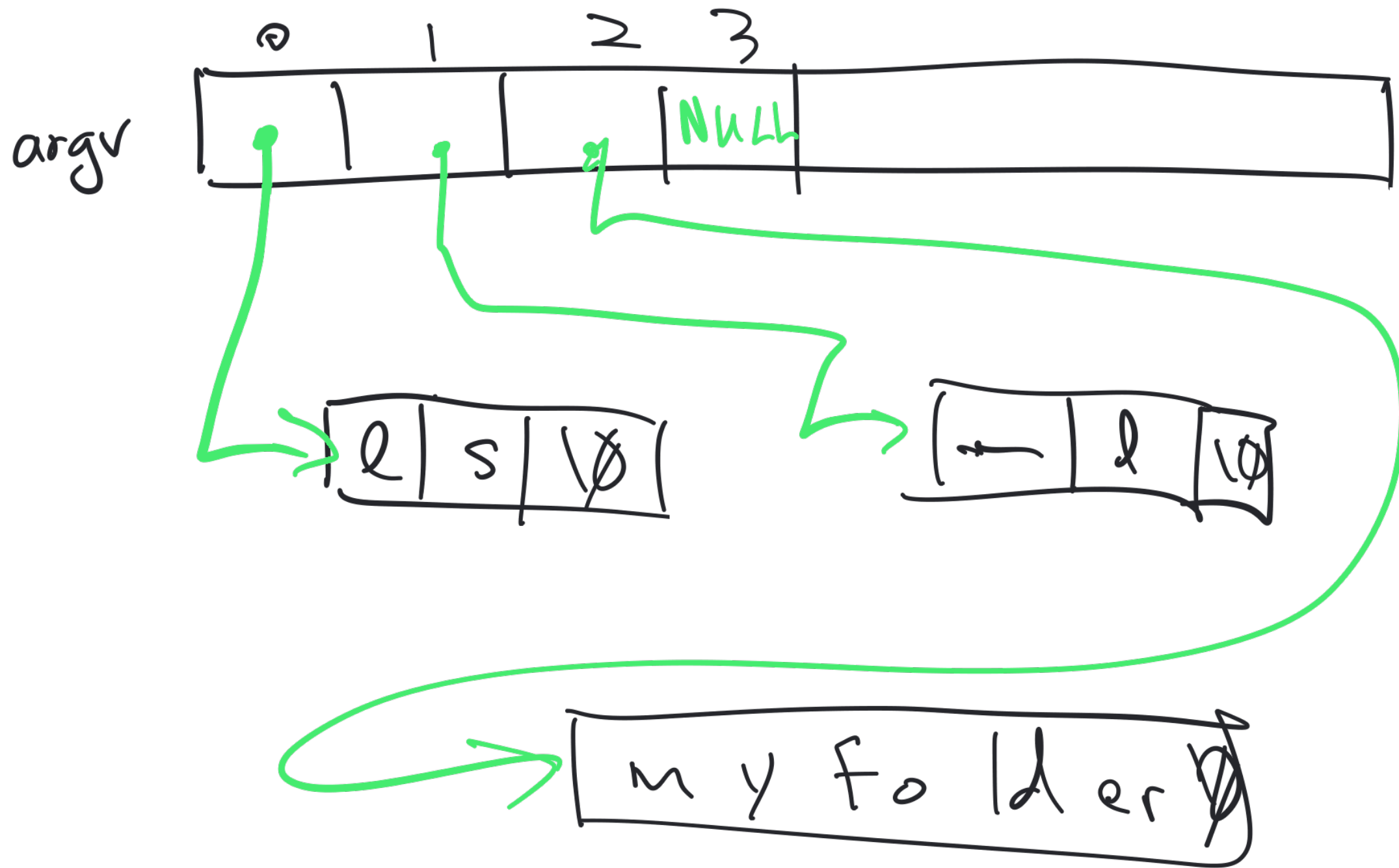


CS 208

15 Feb 2023

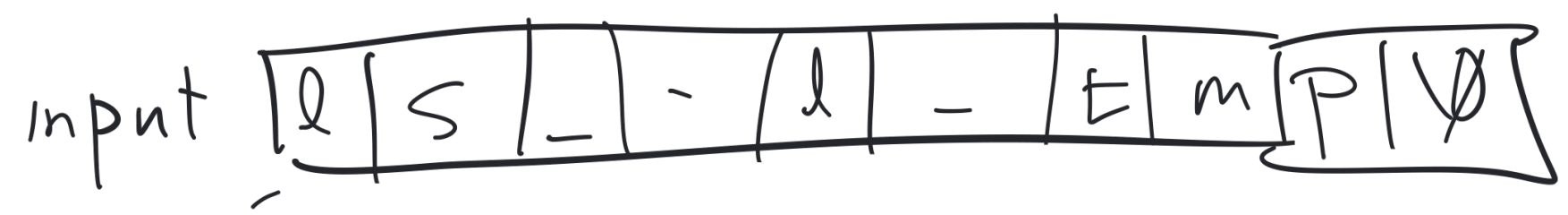
Wed

char *argv[] ls -l myFolder

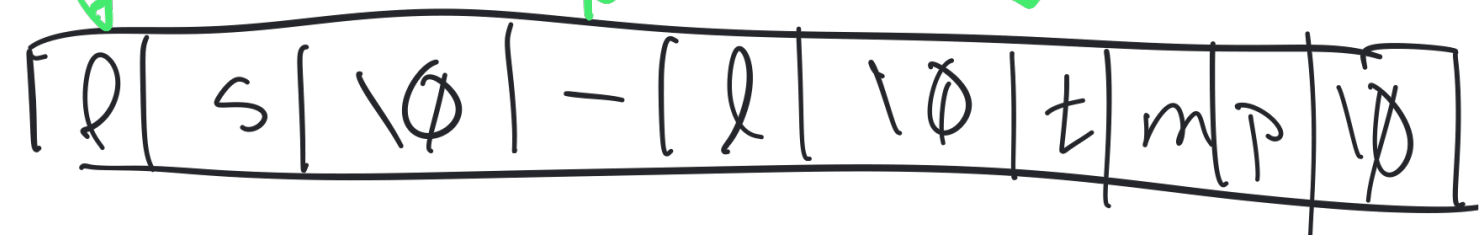


char *argv[] ls -l tmp

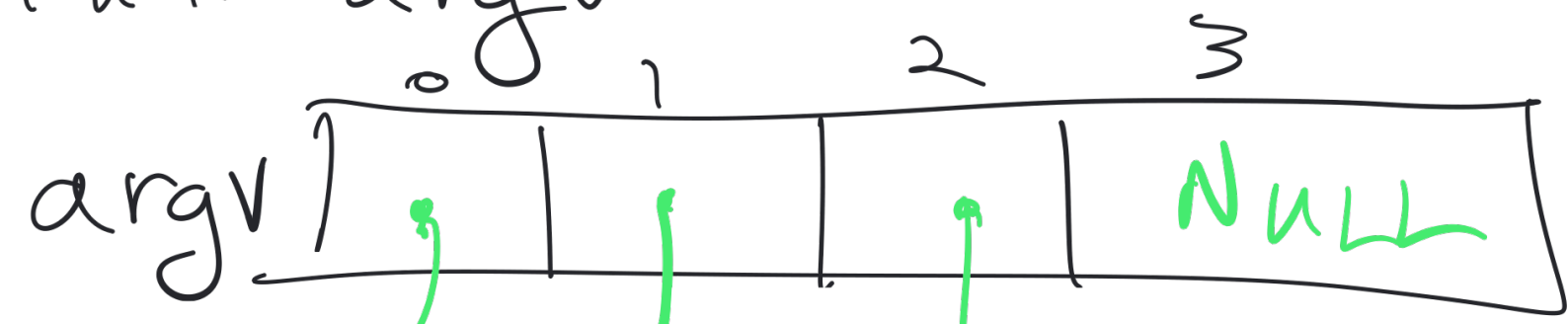
① Read user input



② Insert '\0's



③ Build argv



char *argv[] ls -l tmp

① Read user input

input | l | s | - | l | - | t | m | p | \0

② Insert \0's

| l | s | \0 | - | l | \0 | t | m | p | \0

③ Build argv

argv | 0 | 1 | 2 | 3 | NULL

① fgets

② Count the # of CL args (argc)

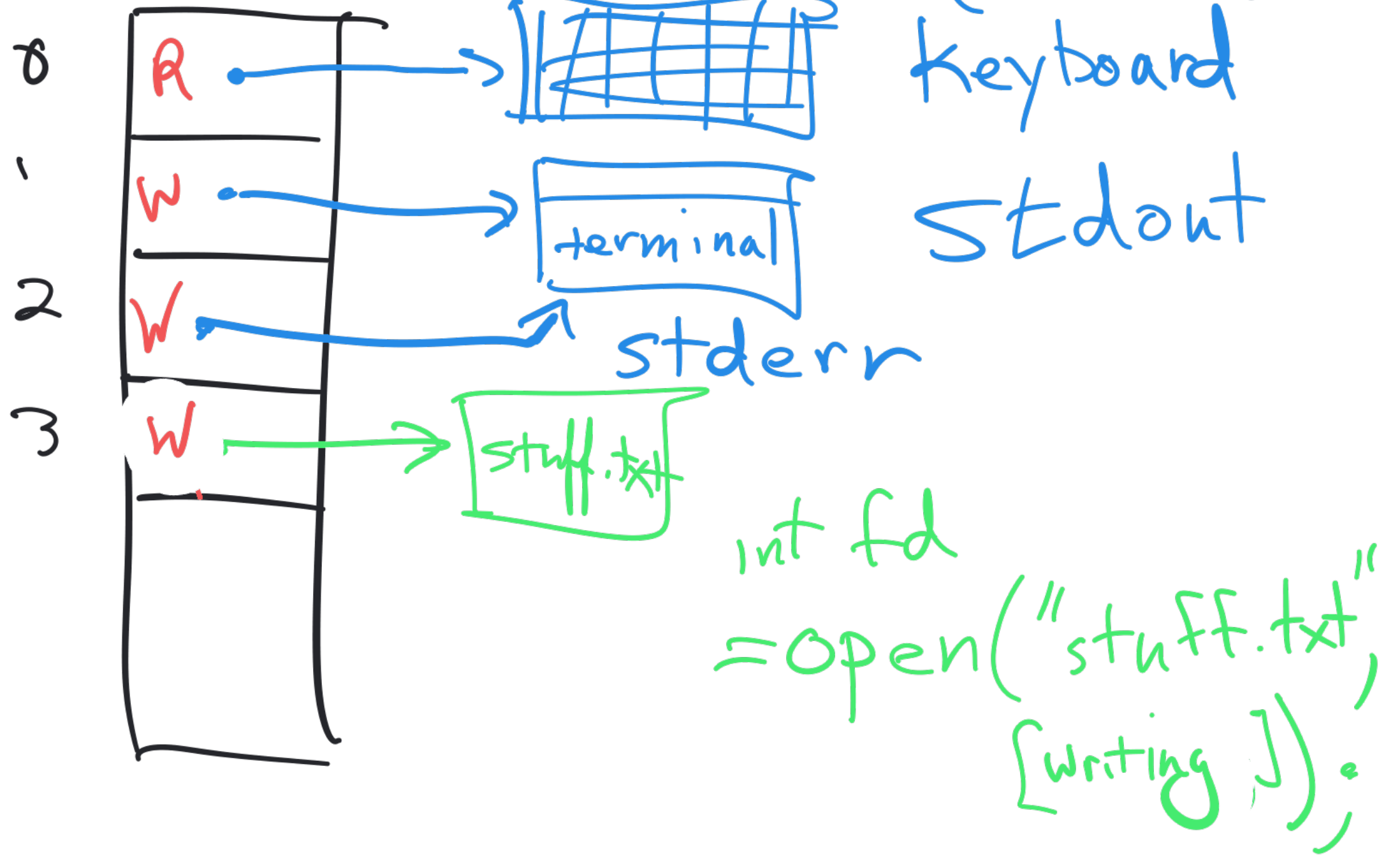
③ Allocate

char *argv[argc+1]

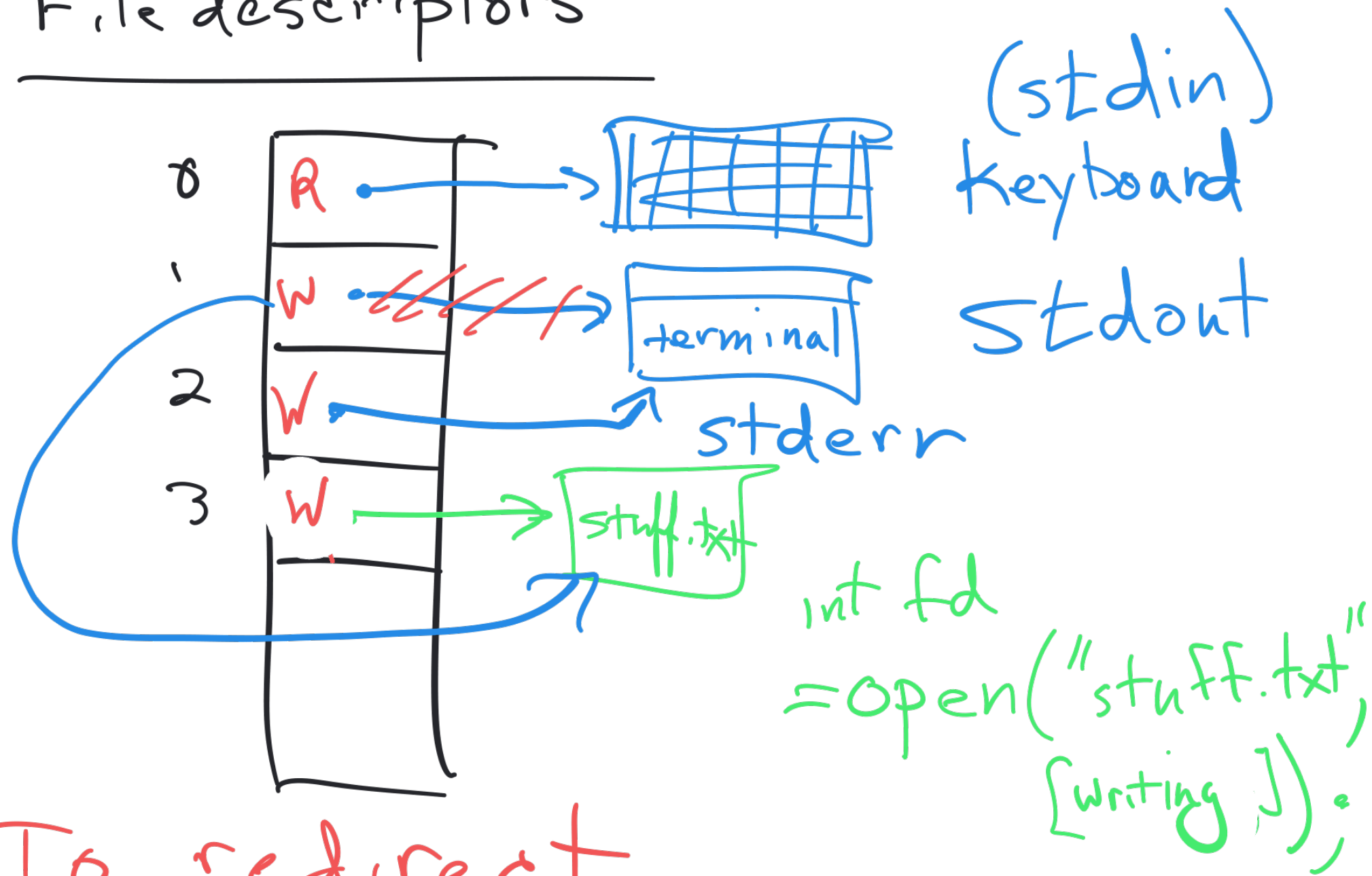
④ Insert \0's + set argv pointers
fork +

⑤ execvp

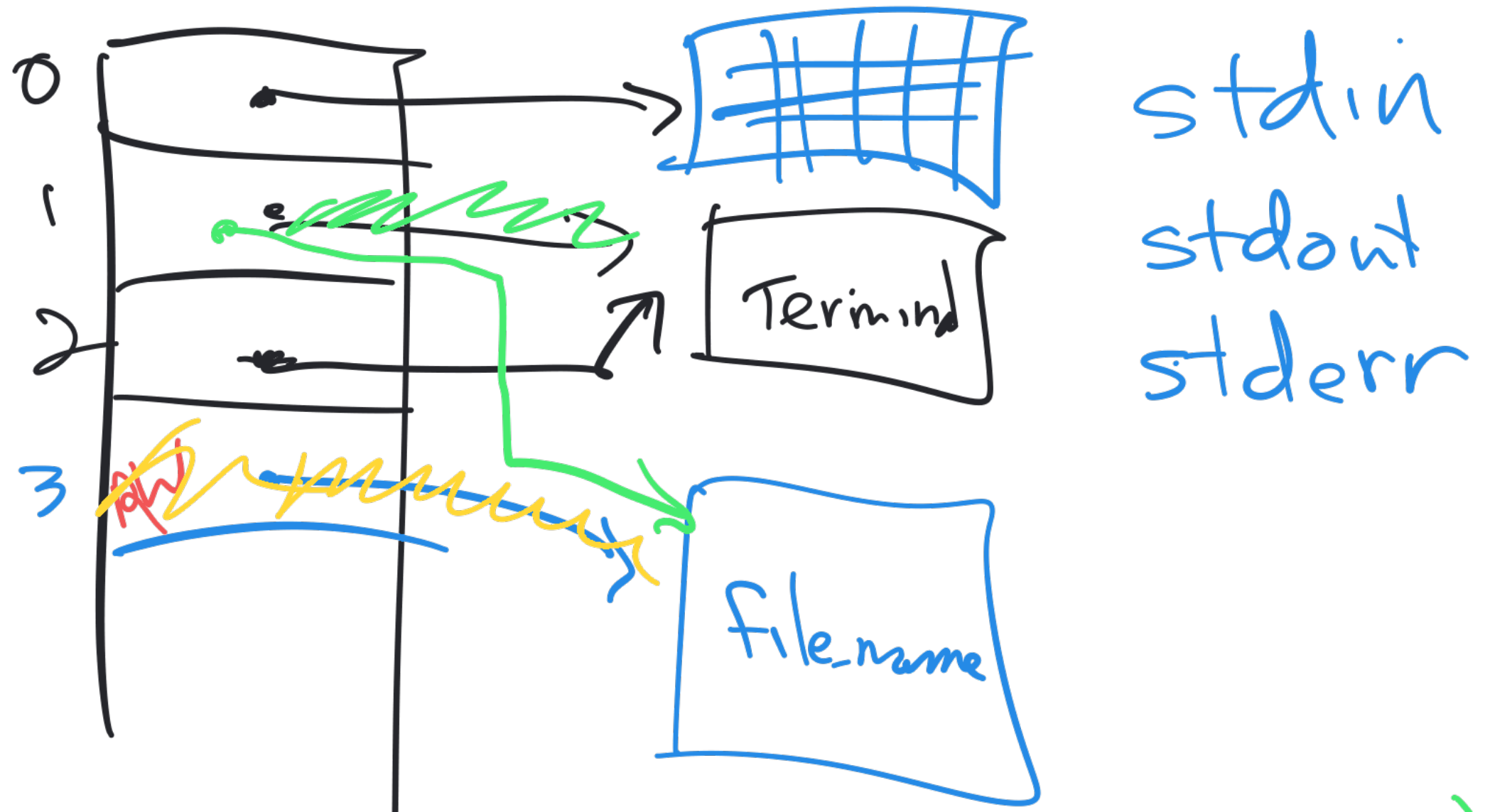
File descriptors



File descriptors



To redirect
stdout to stuff.txt



fd = 3

```
dup2(fd, STDOUT....)  
close(fd);
```