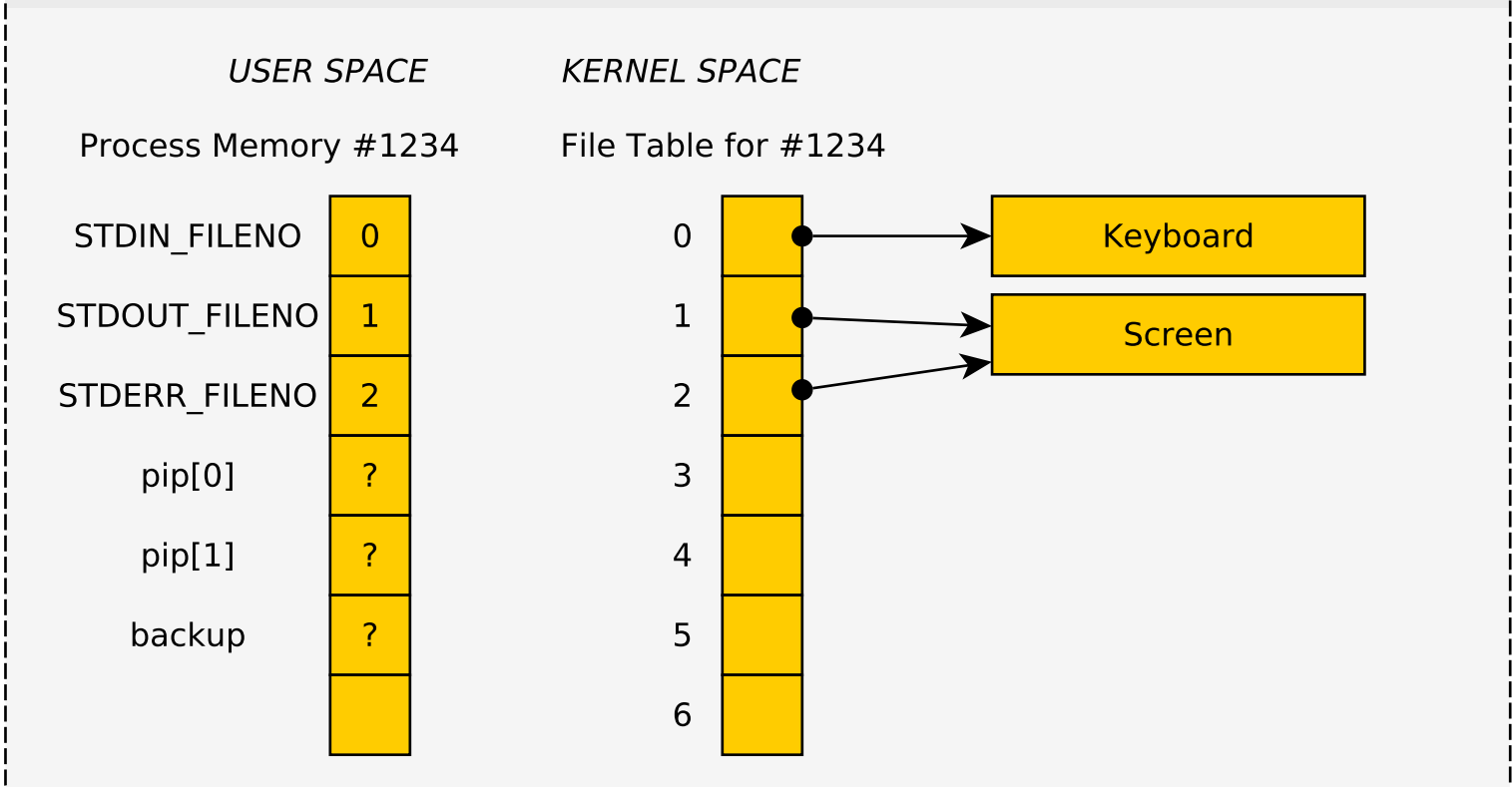
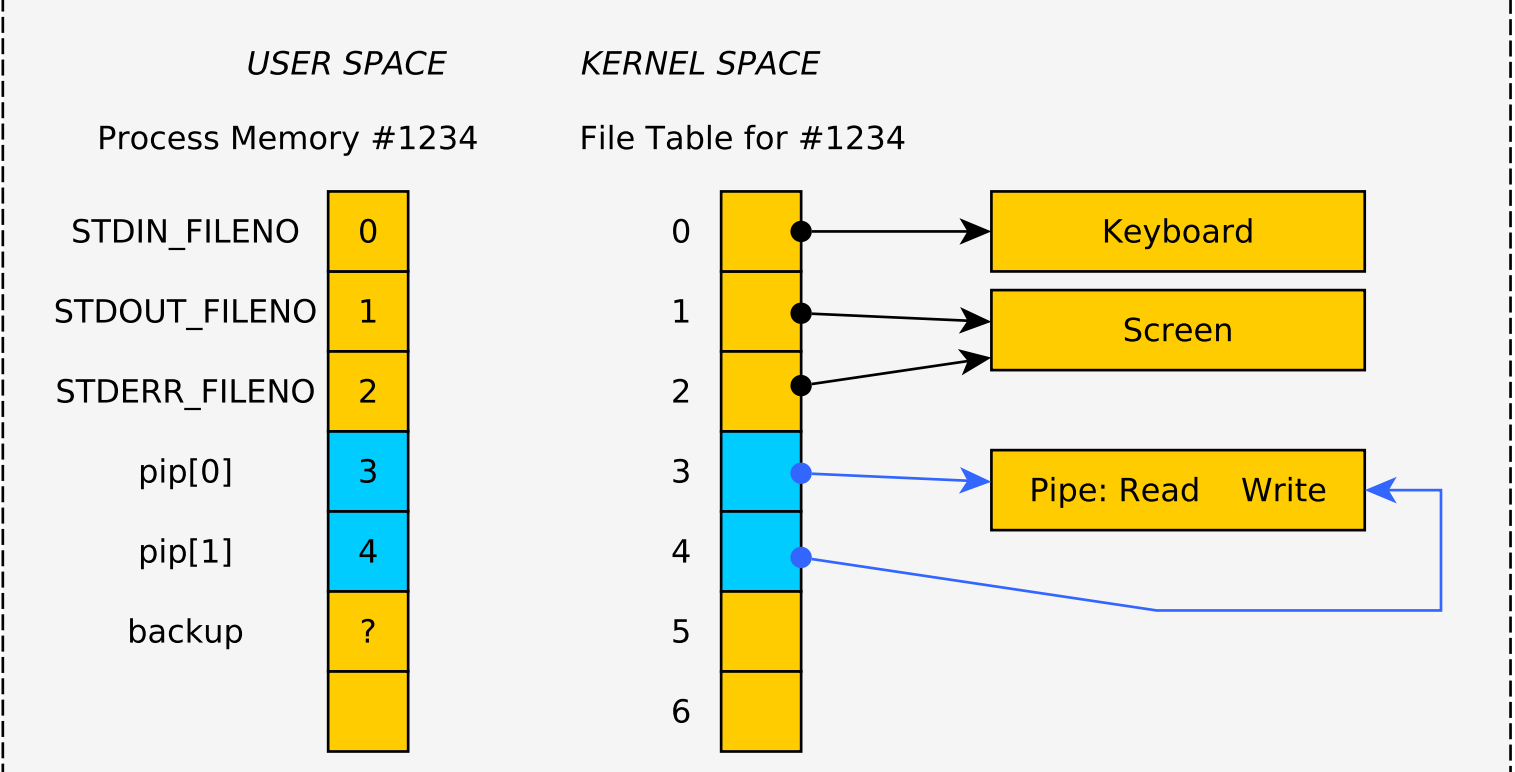


This set of diagrams shows how calls to pipe(), dup(), and dup2() can be used to redirect output that would go to the screen into a pipe. Each grouping is preceded by a system call which changes the state to what appears in the diagram below.

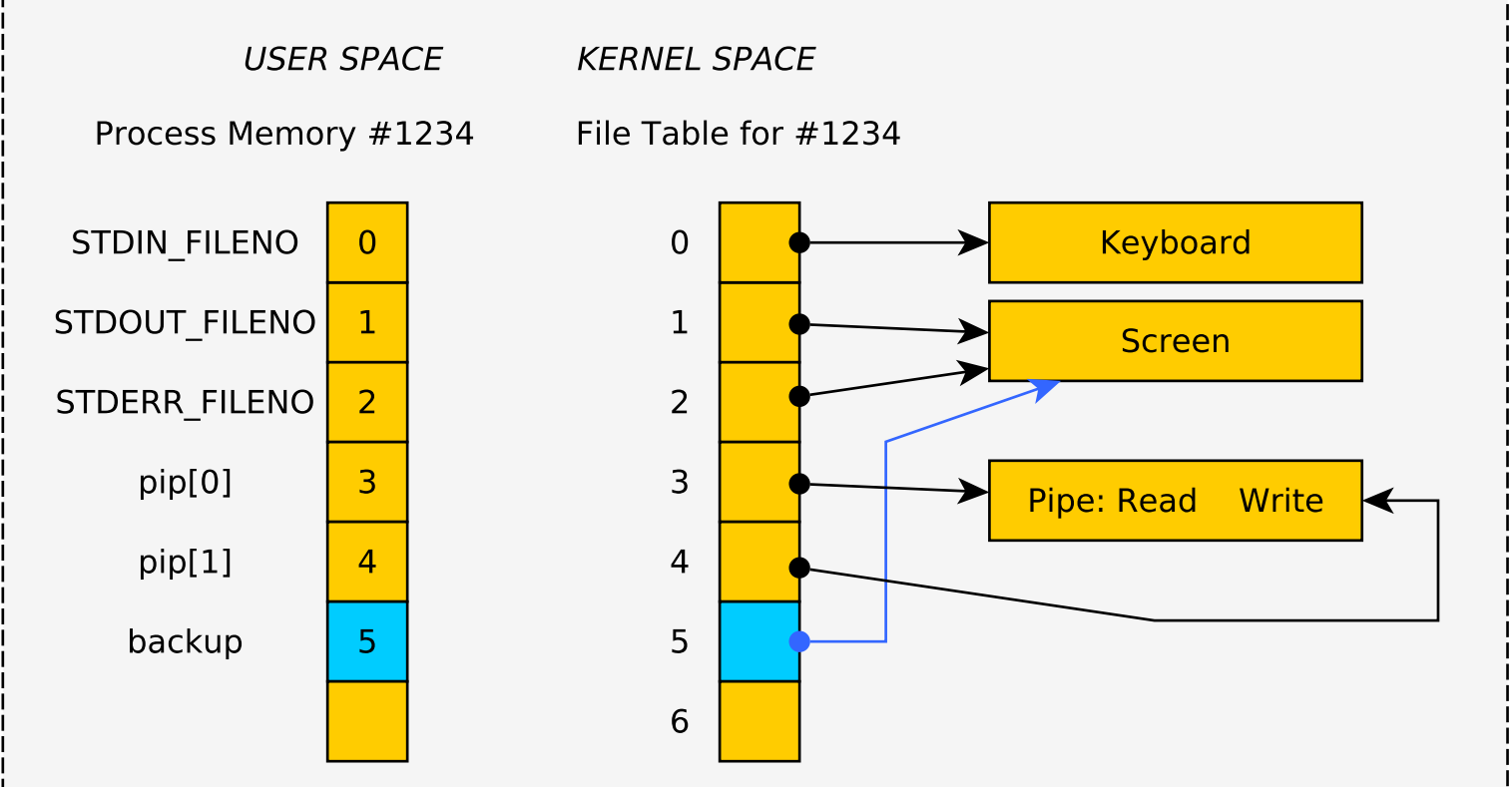
Initial



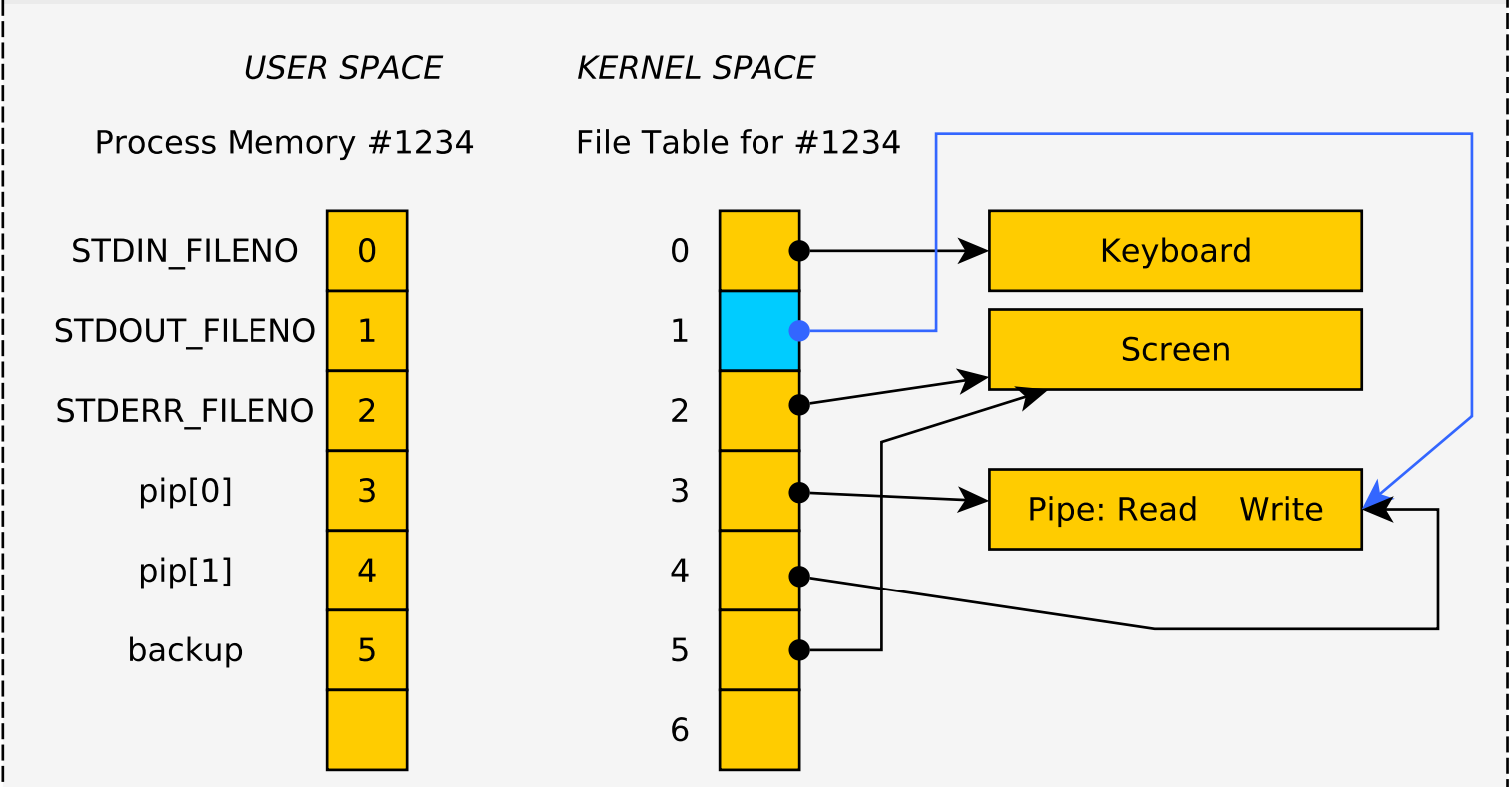
pipe(pip);



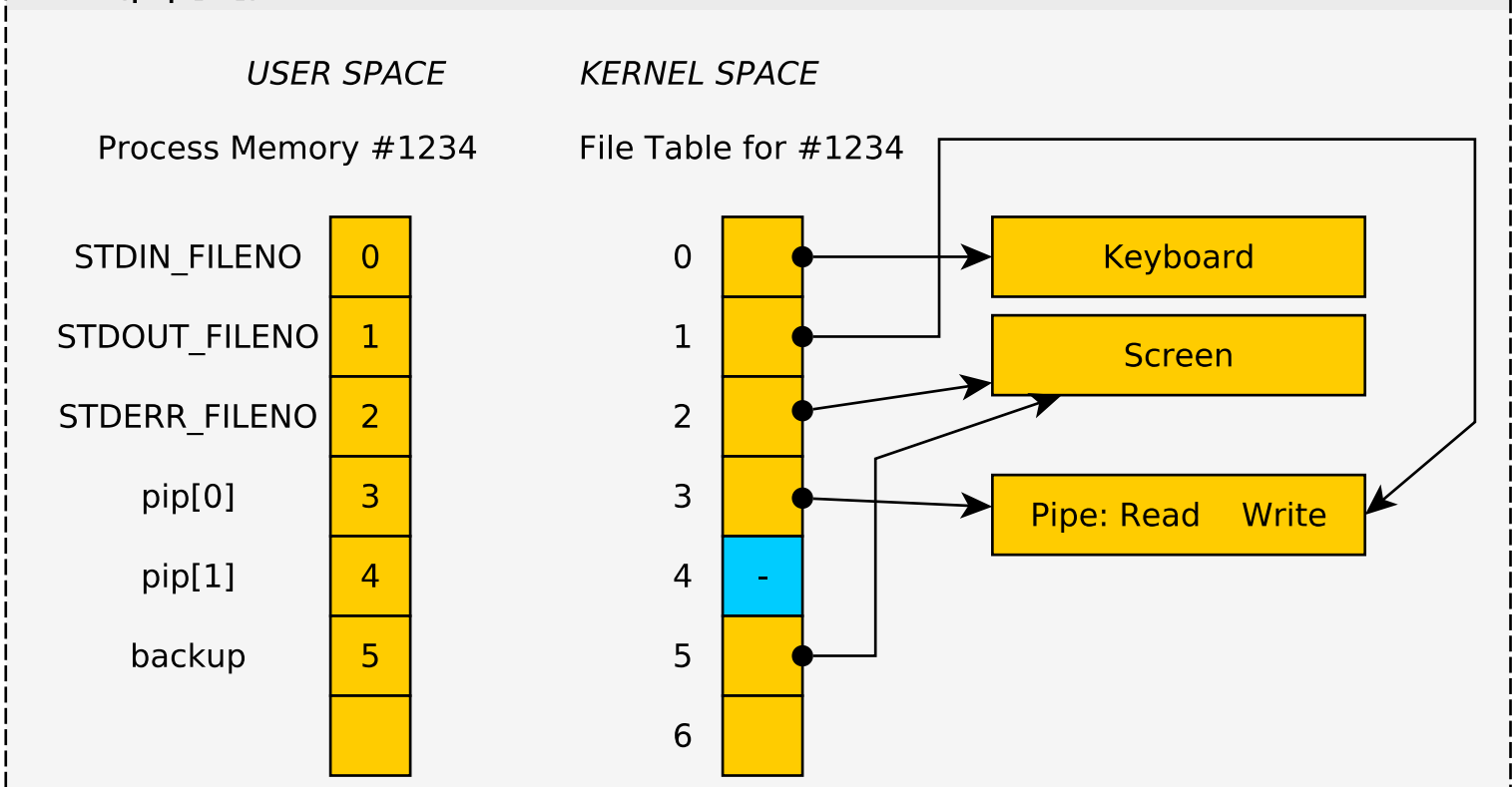
backup = dup(STDOUT_FILENO);



dup2(pip[1], STDOUT_FILENO);



close(pip[1]);



Any printing that is done with printf() or other references to stdout or STDOUT_FILENO will print into the write end of the pipe currently. The next step restores standard out so output goes to the screen again.

dup2(backup, STDOUT_FILENO);

