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HW 3

The parent process creates both pipe objects and all the child processes.

1. The parent calls pipe twice and creates 4 new file descriptors [3,4] [5,6]
2. Parent calls fork and child 1 inherits both pipes
3. Parent calls fork and child 2 inherits both pipes
4. Parent calls fork and child 3 inherits both pipes
5. Child 1 utilizes the first pipe only so close pipe descriptors [5,6]. Close file descriptors 3 & 1. Dup 4, and close 4. (Redirects output to pipe 1.
6. Child 2 utilizes both pipes. With the first pipe, close pipe descriptors 4 & 0. Dup 3 and close 3. (Redirects input to pipe 1). With the second pipe, close descriptors 5 & 1. Dup 6 and close 6. (Redirects output to pipe 2).
7. Child 3 utilizes second pipe only so close pipe descriptor [3,4]. Close file descriptors 6 & 0. Dup 5 and close 5. (Redirects input to pipe 2).