```c
/* pipes.c
** -- using POSIX pipes
** cs180 1/08
*/

#include <stdio.h>
#include <stdlib.h>
#include <string.h>
#include <unistd.h>
#include <sys/wait.h>


int main(void)
{
    int pid;
    char buffer[1024];
    int descriptor[2];

    // pipe() is a system call returns 2 file descriptors
    //
    pipe(descriptor);
        /* descriptor[0] - for reading end
    ** descriptor[1] - for writing end
    */

        if(fork()==0)
        {
            /* child 1 */
        close(1);
                dup(descriptor[1]);
                close(descriptor[0]);
                /*how do we get ls.exe to print to the writing end of the pipe?*/
            execlp("ls", "ls", 0);
        }

        if(fork()==0)
        {
            /* child 2 */
                close(descriptor[1]); //close writing end
        close(0); //close stdin
        dup(descriptor[0]);
                execlp("cat", "cat", 0);
        }
        //write(descriptor[1], "hello world\n", 12);
        close(descriptor[1]);/*parents closed the pipes*/
        close(descriptor[0]); /*parents closed the pipes*/

        wait(NULL);
        wait(NULL);
        printf("finished\n");
        return 0;

}
```