For your third project I want you to write, in C, 2 programs to pass information from one to the other.

Program 1 must be called 'proj3'. It will open a named pipe (pick a name) and fork; the child will execute Program 2. In the parent, Program 1 will read from standard input pairs of integers and writes the sum and difference of the integers to the pipe. Finally it waits for the child to terminate, prints the child's status code, and it terminates.

Program 2 (pick a name) will open the named pipe and read pairs of integers. From these it will recover the original pair the Program 1 read and print the original pair to standard output. When it sees a pair of zeros, it will terminate and return the status code of the number of [non-zero] pairs it read.

I want the .c and any .h files that you need to create the executables. I also want a Makefile with a target 'all' that makes both of the executables. I do not want you to turn in any .o file or the executables. <u>Nota</u> the only name restrictions are the Makefile must be called either 'Makefile' or 'makefile', and the parent executable must be called 'proj3'.

Due Date: 24 Apr 2017 for the MW section, 25 Apr 2017 for the TTh section.