

CS 3733 Operating Systems — Fall 2008 Assignment 4

Name _____

Consecutively number the pages and fill in the table of contents below.

Description	page number	check if correct
makechild.c	_____	<input type="checkbox"/>
makechildparallel.c	_____	<input type="checkbox"/>
makelib.c	_____	<input type="checkbox"/>
makelib.h	_____	<input type="checkbox"/>
Part 0 output	_____	<input type="checkbox"/>
Part 1 output	_____	<input type="checkbox"/>
Part 2 output	_____	<input type="checkbox"/>
Part 3 output	_____	<input type="checkbox"/>
Part 4 output	_____	<input type="checkbox"/>
Part 5 extra source	_____	<input type="checkbox"/>
Part 5 output	_____	<input type="checkbox"/>
Part 5 explanation	_____	<input type="checkbox"/>
Part 6 extra source	_____	<input type="checkbox"/>
Part 6 output	_____	<input type="checkbox"/>
Part 6 explanation	_____	<input type="checkbox"/>
Part 7 extra source	_____	<input type="checkbox"/>
Part 7 output	_____	<input type="checkbox"/>
Part 7 explanation	_____	<input type="checkbox"/>

Answer the questions on the back of this sheet.

If you think everything you did is correct, check here:

Otherwise, give a brief description of what is working and what progress was made on the part that is not working:

- 1) How did you convince yourself that the programs reported the correct result if a fork failed?

- 2) When you ran Part 4, was any of the output interleaved?

- 3) Suppose your program is called with 3 command line parameters. For each of the parts of the assignment, how many total processes are there, assuming that no errors occur. Hint: For Part 0, the answer is 1.

- 4) Assume that the program is called with 3 command line parameters. For each of parts 1 through 4 of the assignment, draw a diagram similar to Figures 3.2 or 3.3 of USP showing parentage of the processes. Do not worry about how the processes are labeled.