

# CS 3733 Operating Systems — Spring 2003 Assignment 4

Name \_\_\_\_\_

Consecutively number the pages and fill in the table of contents below. Put a check mark in the box if you think the part is correct.

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Description	source page	lint page	test output page	check if correct
Part 0 readline	_____	_____		<input type="checkbox"/>
Part 0 readex	_____	_____	_____	<input type="checkbox"/>
Part 1 readline	_____	_____		<input type="checkbox"/>
Part 1 readex	_____	_____	_____	<input type="checkbox"/>
Part 2 readex	_____	_____	_____	<input type="checkbox"/>
Part 3 readline	_____	_____		<input type="checkbox"/>
Part 3 readex	_____	_____	_____	<input type="checkbox"/>
Part 4 readex	_____	_____	_____	<input type="checkbox"/>
Part 5 readex	_____	_____	_____	<input type="checkbox"/>

If you did the extra credit, answer the questions on the back.

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:

For each extra credit part you did, answer the corresponding question(s).

3a. Write the prototype for your readline function here. Where is the memory for the line allocated and where is it freed?

3b. Under what conditions does your program allocate and free memory for the list used by the signal handler?

4. What type of data structure do you use for the list of completed functions?

5. What unsafe functions were used in your signal handler before you did Part 5? How did you handle this?