

# Operating Systems

CMPT 424

## -Lab A

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Goals	<b>Executing many programs in memory and from disk</b> This approximately one-hour active learning exercise will help you make progress on the practical aspects of developing your operating system.
Instructions	<ol style="list-style-type: none"><li>1. Now that your raw disk and file system are working, develop a swapper that can <i>roll out</i> a program from memory and <i>roll in</i> to memory a program stored on disk. Be sure that you update the PBCs as necessary.</li><li>2. Expand your CPU scheduler to handle four (4) or more processes in execution at once, taking into account using the disk as a backing store for your swapper.</li><li>3. Add all of the other features as specified in your Issues and Final Project.</li><li>4. Test. A lot.</li><li>5. Read chapter 8.2 again.</li></ol>
Questions	<ol style="list-style-type: none"><li>1. How well does your operating system work?</li></ol>
Resources	<ul style="list-style-type: none"><li>• Chapter 21 in <a href="http://pages.cs.wisc.edu/%7Eremzi/OSTEP/">http://pages.cs.wisc.edu/%7Eremzi/OSTEP/</a></li></ul>
Grading	Your work on this lab will contribute to your grade for the Final Project.
Submitting	Commit your work to your <b>private</b> GitHub account in an appropriately-named folder. Make sure to tag your commit messages with the Issue number they address.