## **Projects for an Operating Systems Class**

This repository holds a number of projects that can be used in an operating systems class aimed at upper-level undergraduates, from either **Southeast University**, or **Efrei Paris**.

Also available are some tests to see if your code works. A specific testing script, found in each project directory, can be used to run the tests against your code.

For example, in the initial utilities project, the relatively simple seucat program that you create can be tested by running the test-seucat.sh script. This could be accomplished by the following commands:

```
prompt> cd projects/initial-utilities/seucat
prompt> emacs -nw seucat.c
prompt> gcc -o seucat seucat.c -Wall
prompt> sudo chmod 777 test-seucat.sh
prompt> ./test-seucat.sh
test 1: passed
test 2: passed
test 3: passed
test 4: passed
test 5: passed
test 5: passed
test 5: passed
test 7: passed
```

Of course, this sequence assumes (a) you use emacs, (b) your code is written in one shot, and (c) that it works perfectly. Even for simple assignments, it is likely that the compile/run/debug cycle might take a few iterations.

## Syllabus of OS Labs

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I/O

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# Project

The projects marked as blue are **kernel hacking projects**. They are to be done inside the xv6 kernel based on an early version of Unix and developed at MIT. Unlike the C/Linux projects, these give you direct experience inside a real, working operating system.