PC 6
Corrections
Project #2

- Difference between fopen/read and exec/fork "cat | grep"?
- /etc/hostname: no.
- Implement a getFileContents or alike.
- Segfaults and memory leaks
- Yes, some commands needed sudo → Show error. Even better if you suggest being root in case of permission error (errno==EPERM).
- A good data-structure for multiple built-in would be a
  - struct {
    - char* cmd;
    - (int)fnt*(int argc, int argv);
  }, implemented per built-in and kept in a list or hashtable.
Project #3

- Patching did not work on the submission platform
  - → Compiled a blank kernel...
  - → Told you that the message could not be found
- Auto marked (0/10/20 …)
  - Though, you can get 0 if future project cannot compile
- E: / N: in CREDITS
- Pick an __init function, put the printk() inside it. Too early can be dangerous though.
- Some unclean patches (not catched by the script)
Projects importance

1. Shell 1 → 1
2. Shell 2 → 1,5
3. Compiling → (0,5) 0
4. sys_pfstat → 1,5
5. Read vs MMAP → 1
   → No code to submit
6. Hidden files in VFAT → 1,5
   → Modify vFAT to allow storing files in unlisted blocks
Next practical sessions

No more coding session
- Presentation of the last project in a few weeks
- Tell me what you still don't understand after the two weeks of "vacations" and we'll review it from a practical perspective
  - If nothing… no more practical course except
- OS revision game at the end of the semester
  - Per group, with candies!

Use the blokus to review the course!
Project 5
Read vs MMAP
19/04 23:59:59
Explain the differences between using the read/write system calls and the mmap system call to read or write in a file
  ○ In the context of the operating system course and the knowledge you acquired
Try to find the cases where one is better than the other
Generate statistics using your own little programs or existing ones
Draw them as appropriate in your report

WARNING: Flush your cache before launching each sequence of test