# COMP 7500/7506 Lecture 32: Project 4-2 cpmFS: Design and Algorithms

**🟊: >85%, 🟊🟊: 70-85%, 🟊🟊🟊: 55-70%, 🟊🟊🟊🟊: 40-55%, 🟊🟊🟊🟊🟊: < 40%**

**🟊🟊 Exercise 1:** Given a file, let NB be the number of 1024-byte blocks, RC be the number of 128-byte sectors in last partially filled block, and BC be the number of bytes in the last partially filled sector. What is the length of this file?

**🟊🟊🟊🟊 Exercise 2 (Group Discussions):** How to copy BC of extent referred by index from block 0 pointed by e to the DirStruct pointed by d? (see the algorithm of mkDirStruct()).

**🟊🟊 Exercise 3 (Group Discussions):** How to copy BC of DirStruct pointed by d into block 0 pointed by e? Note: extent in block 0 is referred by index

**🟊🟊🟊🟊 Exercise 4:** Where are the blockRead() and blockWrite() functions implemented (i.e., which source code file) in cpmFS?

**🟊🟊🟊🟊 Exercise 5 (Group Discussions):** Please design the algorithm of the cpmDir() function. **Hint:** (1) How to display names? (2) How to print file lengths?

**🟊🟊🟊🟊 Exercise 6 (Group Discussions):** Please design the algorithm of the mkDirStruct() function.