**CS 4250 Programming Languages Fall 2018**

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**HOMEWORK #4 [25 points].**

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| Due date: | Section 001 -> We, 10/10 |
| Section E01 -> Th, 10/11 |

Homework will be collected before the lecture!

**Students who have an electronic textbook are asked to copy questions #4 (Problem #13, p. 327) and #5 (Problem #19, pp. 327 – 328) from a printed book.**

1. [5 points] Describe a situation when the ‘add’ operator in a programming language would not be commutative.
2. [5 points] Describe a situation when the ‘add’ operator in a programming language would not be associative.
3. [5 points] Explain why it is difficult to eliminate functional side effects in C.
4. [5 points] Problem # 13, p.327.
5. [5 points] Problem # 19, pp. 327 – 328.