CST 334: Operating Systems

Dr. Bruns

# Homework 9

**Important note:** you must follow the [course honor policy](https://drive.google.com/file/d/1DHMWTbWuZoTzLE5xtm6zpY_1eLB9P68z/view?usp=sharing).

I recommend spending 1 hour on each OSTEP chapter, 1-1.5 hours on the AWK problem, and 2-3 hours on the pthreads code. Start with the pthreads code.

1. **Reading: Intro to concurrency**. See [instructions](https://docs.google.com/document/d/1tZPeFEoqA-zGiC0PER64MZjI2i2d9ULVgZgrD5rJBzY/edit?usp=sharing).
2. **Reading: Locks**. See [instructions](https://docs.google.com/document/d/1dz_yWPVlKJTITbs0SaFDPveCCSaUcOJELB_uz6h_DAQ/edit?usp=sharing).
3. **Reading: Locks-based data structures**. See [instructions](https://docs.google.com/document/d/1VBOVEvjuLPqY6jlPL2umtnvhdwtwGm4Rj7Js-P0hZsM/edit?usp=sharing).
4. **Reading: Condition variables**. See [instructions](https://docs.google.com/document/d/1DvSkJ_8B6XAhWYgtZkfATfsqEIj_XclRwzmd17RRBts/edit?usp=sharing).
5. **AWK: substrings**. See [instructions](https://docs.google.com/document/d/1j78Rr0grM5DuI1hsht5Bw1po0zBw7oFtIbRF8v2io9c/edit?usp=sharing).
6. **Pthreads: simple merge**. See [instructions](https://docs.google.com/document/d/1FRaQ_5pLcPf9CInsx16BkWGx2qnblHvPGwGxOe23oZ8/edit?usp=sharing).

**Submitting.** See submission instructions in each homework part. Do not submit a zip file. Please be careful to use correct file names.

**Grading**. The homework is worth 100 points (maximum). The parts of the homework are weighted as follows:

* part 1: 10%
* part 2: 10%
* part 3: 10%
* part 4: 10%
* part 5: 30%
* part 6: 30%