Operating Systems (coe628)
Lab 9—Dining Philosophers

April 3, 2017

Duration 2 weeks

Objectives

- Deadlock and the dining philosophers
- Solving deadlock with semaphores (standard Java)

Notes

- The dining philosoper problem is described here . (These are lecture notes from the University of Southern California, UCB.) This paper also includes a C version of the algorithm using semaphores.
- The Wikipedia article also describes the problem and gives a solution in python.

Part A: Translate the C version to Java

- Convert the UCB C algorithm to Java.

Part B: Implement your own version of the Semaphore class

- Use your version of Semaphore from the previous lab.

And Finally: Submit your lab

To submit your lab do:

1. Zip your source code files into a file named `lab9.zip`.
2. Submit the zip file with the command: `submit coe628 lab9 lab9.zip`