Assignment 4

Due: 11:59 PM, March 13

- A. Solve Problem 2.23 in the textbook (1st edition).
- 2.23. In our application of Foster's methodology to the construction of a histogram, we essentially identified aggregate tasks with elements of data. An apparent alternative would be to identify aggregate tasks with elements of bin_counts, so an aggregate task would consist of all increments of bin_counts[b] and consequently all calls to Find_bin that return b. Explain why this aggregation might be a problem.
- B. Describe how to install MPI and mpi4py. You may choose any MPI implementation, and any operating system. Describe all steps with commands executed and/or screenshots.
- C. Run attached first-example.c and first-example.py using the MPI environment above. Show the output after running the two files.