

# CS87 Spring 18: Lab 5 Answers to Questions

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**Question 1:** What is the big-O complexity of the Sequential Odd-Even Sort Algorithm on a list of  $N$  items? Give a detailed explain of you answer.

**Question 2:** Given  $P$  processors, what is the big-O complexity of the Parallel Odd-Even Sorting Algorithm? Give a detailed explain of you answer.

**Question 3:** Given  $P$  processors, how much space is needed to perform the parallel sort of  $N$  values? Explain your answer.

**Question 4:** IS Odd-Even sort a good algorithm for sorting on a GPU? Why or Why not?

**Question 5:** Is Odd-Even sort a good algorithm for sorting on a cluster using MPI? Why or Why not?