Homework 1: Introduction to Algorithmic Analysis and recurrence

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CSC-372 Analysis of Algorithms

Instructor: Dr. R

Due: Section 1 DUE: Thursday, Aug 27th, at 7AM Section 2 DUE: Thursday, Sept 3 th, at 7AM

Department: Computer Science and Engineering University: South Dakota School of Mines and Technology

1 Introductory Information

- 1. (3 pt) How soon do you need to notify me for a normal extension? 36 hours
- 2. (3 pt) How many projects will there be? 5 projects
- 3. (3 pt) How long do you have to notify me for a possible grading error, starting when? the grade One week
- 4. (3 pt) What is the ONLY option to bring up your grade at the end of the semester? Se Take the optional second chance
- 5. (8 pt) When did you attend ZOOM office hours after Aug 19 (this will confirmed later)? August 20, 2020
- 6. (3 pt) Should your microphones/video initially be on or off when attending a Zoom recitation/office hours. Start with camera and microphone off.
- 7. (3 pt) What topic(s) are tentatively planned for Oct. 9? F: Closest Pair of points
- 8. (3 pt) At minimum view, the entry quiz (competition is not required)
- 9. 9. (6 pt) What is the run time for the following code. You MUST show your work for any credit Run Time = O(x * y * z * n)

2 Coding

a. (40 pt) CODE the books version of insertion sort and merge sort. Mark these with comments in the format; GRADING: INSERT and GRADING: MERGE, respectively. This is so we can check the code quickly. Accuracy checked with correct input output.