**SP 2023: CS 2500 – Algorithms**

**Feedback for HW #: <HW\_1>**

Student: Steber, Lincoln (lgs6bv)

Total Score: <on scale of 50 or 100> 45 => <on scale of 10> => 45/5= 9

Grader: Snehal

**Problem 1.1**

**Score: 7** (Please give the split for the score as per the provided rubric)

Comments: (Provide a detailed assessment of the student’s work)

* The intended meaning is clear and there are only a few places where the mathematical notation is used incorrectly.
* The student seems to understand how a proof by induction (contradiction) is supposed to look, but has difficulty fitting the structure to the specific problem.
* The student understands the statement of the theorem and how to tailor an induction proof to the problem instance, but fails to complete the argument to form a correct proof.

**Problem 1.2:**

**Score: 8, 3.1(a,b,c)** (Please give the split for the score as per the provided rubric)

Comments: (Provide a detailed assessment of the student’s work)

* The intended meaning is clear and there are only a few places where the mathematical notation is used incorrectly.
* The student seems to understand how a proof by induction (contradiction) is supposed to look, but has difficulty fitting the structure to the specific problem.
* The student understands the statement of the theorem and how to tailor an induction proof to the problem instance, but fails to complete the argument to form a correct proof.

**Score: 6, 4.1(g)** **and 4.4(j)(**Please give the split for the score as per the provided rubric)

Comments: (Provide a detailed assessment of the student’s work)

The student provides a logically sound proof.

**Score: 5, 4.1(h) and 4.4(h)**

Comments: The student provides a logically sound proof.

**Problem 2.1 :**

**Score: 10pts**

Computation for average time for different algorithms was done.

**Problem 2.2:**

**Score: 10pts**

Empirical analysis was done.