**Declaration: CS200**

**Name: Hwang Chan Il\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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# Non-Programming Portion: Worth 50 points

\_o\_1: Correct information was submitted: declaration page, derivation pages, and a manual page. **If not, penalty is** **20 points.**

\_o\_2: Derivation of DDA line algorithm from first principles. The derivations must consider all eight possible combinations of end points. **Worth 20 points.**

\_o\_3: Derivation of Midpoint line algorithm from first principles. The derivations must consider all eight possible combinations of end points. **Worth 30 points.**

# Programming Portion: Worth 50 points

\_o\_1: Student program compiles, links and executes. **If not, penalty is** **50 points.**

\_o\_2: Symmetrical version of DDA algorithm is correctly implemented. **Worth 25 points.**

\_o\_3: Symmetrical version of Midpoint algorithm is correctly implemented. **Worth 25 points.**

**DECLARATION: Hwang Chan Il**

I have read the statements regarding cheating in both the CS 200 course handout and DigiPen student handbook. I affirm with my signature that this is my own solution to A2 and the submitted source code and derivations represent my own work.

**Signature:** Hwang Chan Il