

Name	Practical 1				
Description					
Rubric Detail					
	Levels of Achievement				
Criteria	Excellent (5 marks)	Good (4 marks)	Satisfactory (3 marks)	Needs Improvement (2)	Incorrect / Not attempted (0 marks)
Bubble Sort Implementation (5 marks)	5 Points Correctly implements Bubble Sort with an efficient stopping condition. Sorting is accurate, and the implementation follows best coding practices. Thorough testing is done using SortsTestHarness.	4 Points Implements Bubble Sort correctly but has minor inefficiencies in stopping condition or logic. Testing is mostly complete.	3 Points Bubble Sort is implemented but contains some errors affecting sorting accuracy. Partial testing is done.	2 Points Bubble Sort is implemented but has major errors, such as incorrect logic or missing stopping condition. Minimal testing is conducted.	0 Points Used Built-In functions or not implemented or completely incorrect implementation.
Insertion Sort Implementation (5 marks)	5 Points Correctly implements Insertion Sort with proper logic. Sorting is accurate, and the implementation follows best coding practices. Thorough testing is done using SortsTestHarness.	4 Points Implements Insertion Sort correctly but has minor inefficiencies in logic or optimization. Testing is mostly complete.	3 Points Insertion Sort is implemented but contains errors affecting sorting accuracy. Partial testing is done.	2 Points Insertion Sort is implemented but contains major errors, such as incorrect logic or missing steps. Minimal testing is conducted.	0 Points Used Built-In functions or not implemented or completely incorrect implementation.
Selection Sort Implementation (5 Marks)	5 Points Correctly implements Selection Sort with appropriate logic. Sorting is accurate, and the implementation follows best coding practices. Thorough testing is done using SortsTestHarness.	4 Points Implements Selection Sort correctly but has minor inefficiencies in logic or optimization. Testing is mostly complete.	3 Points Selection Sort is implemented but contains errors affecting sorting accuracy. Partial testing is done.	2 Points Selection Sort is implemented but contains major errors, such as incorrect logic or missing steps. Minimal testing is conducted.	0 Points Used Built-In functions or not implemented or completely incorrect implementation.
Sorting Performance Investigation (5 Marks)	5 Points Comprehensive runtime analysis with a well-organized table for different cases	4 Points Good analysis with a mostly complete table	3 Points Analysis includes a basic table, but missing cases or	2 Points Minimal analysis, missing key elements like table or	0 Points No analysis or missing submission.

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Levels of Achievement					
Criteria	Excellent (5 marks)	Good (4 marks)	Satisfactory (3 marks)	Needs Improvement (2)	Incorrect / Not attempted (0 marks)
	(e.g., ascending, descending, random, nearly sorted). Insightful discussion on time complexity, best/worst/average cases, and scalability.	covering multiple cases. Discussion provides reasonable insights but lacks depth.	lacks explanation of results. Discussion is minimal.	discussion. Very limited insights provided.	
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