CAB301 As	ssignment 2	2 Marking	Schema and	Feedback Shee

Student Names:		

Description of	Very good (7-8)	Good (5-6)	Fair (3-4)	Unsatisfactory (0-2)
algorithms and theoretical predictions Marks awarded (out of 8):	☐ The algorithms are described clearly, succinctly and accurately ☐ The choices of basic operation and input size are clearly identified, well justified, and suitable for both algorithms ☐ The algorithms' predicted average-case efficiencies are explained clearly, succinctly and accurately	☐ The algorithms are described clearly, but some minor detail is missing ☐ The choices of basic operation and input size are clearly identified but the explanation is unclear ☐ The algorithms' predicted average-case efficiencies are described, but are not explained clearly	 ☐ The algorithms' descriptions are difficult to follow or are missing essential information ☐ The choices of basic operation and input size are poorly justified ☐ The algorithms' predicted average-case efficiencies are described incompletely or poorly 	☐ The algorithms' descriptions are largely incomplete or inaccurate ☐ The choices of basic operation and input size are inappropriate for these algorithms ☐ The algorithms' predicted average-case efficiencies are not described or are described inaccurately
Implementation of	Very good (7-8)	Good (5-6)	Fair (3-4)	Unsatisfactory (0-2)
the algorithm	☐ The programs implement the algorithms faithfully, and the correspondences between features of the algorithms and	The programs implement the algorithms faithfully, although some detailed aspects of the correspondence between	☐ There are unexplained differences between the algorithms and their programming language implementations	The programming language implementations are incomplete, or differ from the given algorithms in a way
Marks awarded (out of 8):	their programming language implementations are either self-evident or are explained clearly, succinctly and accurately	the programs and the algorithms are unclear	that could cast doubt on the validity of the experiments	which invalidates the experiments
Quality of written	Very good (4)	Good (3)	Fair (2)	Unsatisfactory (0 – 1)
report Marks awarded (out of 4):	 ☐ The report contains no significant errors in spelling, grammar or typography ☐ All reference materials used for the project are cited comprehensively ☐ The computing environment used to develop the programs and perform the experiments is described clearly ☐ The report is well organised into sections and contains helpful navigational aids for the reader (headings, cross references, etc) which make the overall 'story' easy to follow 	☐ The report contains a few minor errors in spelling, grammar or typography ☐ All reference materials used for the project are listed, but some citations seem to be missing from the text ☐ The description of the computing environment used to develop the programs and perform the experiments is missing some minor details ☐ The report is divided into sections and contains some navigational aids for the reader (headings, cross references, etc), but the overall 'story' is unclear in parts	☐ The report contains several errors in spelling, grammar or typography, but is still readable ☐ A list of reference materials is given but is not clearly linked to the relevant parts of the text by citations or is incomplete ☐ The description of the computing environment used to develop the programs and perform the experiments is missing essential information needed to duplicate the experiments ☐ The report is divided into sections but needs to be made easier to follow with additional navigational aids for the reader (clearer headings, more cross references, etc)	☐ The report contains numerous errors in spelling, grammar or typography that make it difficult to read ☐ The list of reference materials used for the project is largely incomplete or inadequate ☐ The computing environment used to develop the programs and perform the experiments is not described adequately ☐ The report is structured in a confusing way or contains insufficient navigational aids for the reader, making it difficult to follow

Experimental design and results	Very good (15-18)	Good (10-14)	Fair (5-9)	Unsatisfactory (0-4)
	☐ The functional correctness of the programs was tested or verified in a clear and appropriate way, including 'normal' and 'extreme' input cases	The way in which the programs were shown to work correctly lacks some minor detail or fails to consider some important input cases	Claims for the programs' functional correctness are not supported by clear test code and convincing test results or other proofs	☐ The programs' functional correctness is not demonstrated or verified adequately ☐ It is impossible to tell how many tests or experiments contributed to the final
Marks awarded (out of 18):	☐ It is clear how many data points contributed to the graphs of results and how many tests contributed to each data point ☐ The way that basic operations are counted is clear and accurate (with respect to the basic operations identified for these algorithms) for both algorithms ☐ Experiments to count the algorithms' basic operations produced clear trends which could be compared meaningfully and the results are explained clearly ☐ The way in which the average execution times of the programs were measured against the problem size is clear and accurate for comparing both algorithms ☐ Experiments to measure the programs' execution times produced clear trends which could be compared meaningfully and the results are explained clearly	☐ Graphs of results clearly show distinct data points but it is not clear how many tests contributed to each data point ☐ The way that basic operations are counted appears to be accurate (with respect to the basic operations identified for these algorithms) but the technique's explanation is unclear in parts ☐ Experiments to count the algorithms' basic operations produced clear trends which could be compared meaningfully but with some large gaps or outliers in the data or unclear explanations ☐ The way in which the execution times of the programs was measured appears to be appropriate but its explanation is unclear in parts ☐ Experiments to measure the programs' execution times produced clear trends which allowed the programs to be compared meaningfully but with some unexplained outliers	☐ Graphs of results don't clearly show individual data points or it is not clear how many tests contributed to the results ☐ The way that basic operations are counted does not allow direct comparison of the algorithms, or may lead to minor inaccuracies ('off-by-one' errors) ☐ Some experimental results for the number of basic operations were produced, but there were too few data points to allow the algorithms to be compared meaningfully ☐ The way in which the execution times of the programs was measured may lead to minor inaccuracies or appears to be inappropriate for direct comparison of the programs ☐ Some experimental results for measuring execution times were produced, but there were too few data points to allow the programs' efficiencies to be compared	experiments contributed to the final results The way that basic operations are counted is grossly inaccurate or largely incomplete The results produced for counting basic operations were insufficient to allow convincing conclusions to be drawn from the experiment No adequate method is given for comparing the programs' execution times, or the method used is likely to be highly inaccurate The results produced for measuring execution times were insufficient or too inaccurate to allow convincing conclusions to be drawn from the experiment

You are to be con	nmended for:	Next time you need to work on:
Total mark (out of 40):		