

DT228/1 Algorithms Marking Sheet

Part 1 - Sorting

1	Discussion of algorithms considered (9%)	
(i)	Discussion of at least 2 algorithms for merging (problem size, complexity, order ..)	4
(ii)	Discussion of at least 2 algorithms for sorting (problem size, complexity, order ..)	4
(iii)	Chosen algorithms	1
2	Discussion of datastructures considered (6%)	
(i)	Discussion of two data structures	2
(ii)	Examples of what your data looks like in these data structures	4
3	Description of solution (15%)	
(i)	Ground rules	1
(ii)	How algorithms work together & complexity	4
(iii)	Reference to other sources (books, journals, papers)	1
(iv)	Step-by-step description	9
4	Actual Algorithm (10%)	
(i)	Pseudocode	4
(ii)	Flowchart	4
(iii)	Are they matching?	2
		40

Part 2 - Searching

1	Discussion of searching algorithm 1 (8%)	
(i)	Ground rules	1
(ii)	How algorithm(s) work, stepwise & complexity	7
2	Discussion of searching algorithm 2 (12%)	
(i)	Ground rules	1
(ii)	How algorithm(s) work, stepwise & complexity	7
(iii)	Which is best of 1 & 2 and why.	4
3	Actual Algorithm (10%)	
(i)	Pseudocode	4
(ii)	Flowchart	4
(iii)	Are they matching?	2
		30

Part 3 - Implementation

1	Implementation of Part 1 algorithm (10%)	
(i)	Does it match algorithm?	8
(ii)	Code & exe	2
2	Implementation of Part 2 algorithm (10%)	
(i)	Does it match algorithm?	8
(ii)	Code & exe	2
		20

Part 4 - Demo

1	Demo of Part 1 algorithm (5%)	
(i)	Does it work?	5
2	Demo of Part 2 algorithm (5%)	
(i)	Does it work?	5
		10