Marking Criteria Sheet

Student ID: **Student Name:** **Marker:**

Total marks = 30

Note: The marking criteria are subject to the assignment specification. If your assignment does not meet any requirement in the assignment specification, penalties may be applied.

ADT Implementations (15 marks)

Methods/Rubric	**Very Satisfactory** For all test cases, postconditions hold true after the method is executed, and for all test cases, invariants hold true	**Satisfactory** For at least half test cases, postconditions hold true after the method is executed, and for at least half test cases, invariants hold true	**Fairly Satisfactory** For less than half test cases, postconditions hold true after the method is executed, or for less than half test cases, invariants hold true	**Unsatisfactory** For no test cases, postconditions hold true after the method is executed, and for no test cases, invariants hold true; or the method does not compile in the test environment; or the method does not meet the specification
Tool.cs – IncreaseQuantity	1.5 marks	1 mark	0.5 marks	0 mark

Tool.cs – DecreaseQuantity	1.5 marks	1 mark	0.5 marks	0 mark
Tool.cs – AddBorrower	1.5 marks	1 mark	0.5 marks	0 mark
Tool.cs – DeleteBorrower	1.5 marks	1 mark	0.5 marks	0 mark
Tool.cs – SearchBorrower	1.5 marks	1 mark	0.5 marks	0 mark
ToolCollection.cs – Add	1.5 marks	1 mark	0.5 marks	0 mark
ToolCollection.cs – Delete	1.5 marks	1 mark	0.5 marks	0 mark
ToolCollection.cs – Search	1.5 marks	1 mark	0.5 marks	0 mark
ToolCollection.cs – Clear	1 mark	0.5 mark	0.25 marks	0 mark
ToolCollection.cs – IsEmpty	1 mark	0.5 marks	0.25 marks	0 mark
ToolCollection.cs – IsFull	1 mark	0.5 marks	0.25 marks	0 mark

Algorithm Design (6 marks)

Very Satisfactory	**Satisfactory**	**Fairly Satisfactory**	**Unsatisfactory**	**Fail**
Algorithm produces the correct output for all possible input values; it is efficient in computation time; and it is well presented using the required pseudocode notations. (6 marks)	Algorithm produces correct output values for all possible input values; and it is efficient in computation time; but some required pseudocode notations are not properly used in its description. (4 marks)	Algorithm produces correct output values for some possible input values, but not all input values. (2 marks)	Algorithm does not produce correct output values for all input values. (1 mark)	No algorithm submitted. (0 mark)

Theoretical Algorithm Analysis (9 marks)

Very Satisfactory	**Satisfactory**	**Fairly Satisfactory**	**Unsatisfactory**	**Fail**
The theoretical algorithm analysis process is followed, the analysis is accurate, and the analysis results are correct. (9 marks)	The theoretical algorithm analysis process is followed, and the analysis results are correct. However, some analysis details are missing or inaccurate. (6 marks)	The analysis results are correct. However, the theoretical algorithm analysis process is not followed, or some analysis details are missing or inaccurate. (3 marks)	The theoretical algorithm analysis process is not followed; most analysis details are missing or inaccurate, or the analysis results are incorrect. (1.5 marks)	No theoretical analysis is submitted. (0 mark)