

**Programming language features as implemented and tested in the assignment**

A	A	A	class declarations
A	A	A	data member declarations
A	A	A	member function declarations
A	A	A	inheritance list
A	A	A	private/public members
A	A	A	free function definitions
A	A	A	member function definitions
A	A	A	int, float, variable declarations
A	A	A	array variable declarations
A	A	A	if statement
A	A	A	while statement
A	A	A	read/write statement
A	A	A	return statement
A	A	A	assignment statement
A	A	A	complex indirect structures involving [] and (), and expressions as array indexes
A	A	A	complex expressions involving addop, multop, relop, unaryop, lindex, function calls

Notes	mark	ratio	letter	
	100%	6.00%	A	1 Document Section 1 - Presentation of LL(1) grammar, and related transformations
	100%	2.00%	A	1.1 Clarity - presentation of grammar and the problems/transformations
	100%	2.00%	A	1.2 Completeness - all problems with the grammar are listed/explained
	100%	2.00%	A	1.3 Statement of changed specification versus original specifications in the assignment statement (if applicable)
	100%	4.00%	A	2 Document Section 2 - FIRST/FOLLOW sets
	100%	2.00%	A	2.1 Clarity - presentation of FIRST/FOLLOW sets is clear and understandable
	100%	2.00%	A	2.2 Completeness - FIRST/FOLLOW sets are given for all non-terminal symbols
	100%	4.00%	A	3 Document Section 3 - Description/Justification of the overall structure of the solution and the roles of the individual components used in the applied solution to the stated problem
	100%	2.00%	A	3.1 Clarity - presentation of the design is clear and understandable
	100%	2.00%	A	3.2 Completeness - all implemented components are mentioned in the design description
	100%	4.00%	A	4 Document Section 4 - Description of tools/libraries/techniques used in the analysis/implementation. Description of other tools that might have been used. Justification of why the chosen tools were selected
	100%	2.00%	A	4.1 All tools used in the analysis/implementation are mentioned
	100%	2.00%	A	4.2 Justification for all tools
	100%	30.00%	A	5 Correct implementation of a top-down predictive parser according to the original grammar
	100%	1.88%	A	5.1 class declarations
	100%	1.88%	A	5.2 data member declarations
	100%	1.88%	A	5.3 member function declarations
	100%	1.88%	A	5.4 inheritance list
	100%	1.88%	A	5.5 private/public members
	100%	1.88%	A	5.6 free function definitions
	100%	1.88%	A	5.7 member function definitions
	100%	1.88%	A	5.8 int, float, variable declarations
	100%	1.88%	A	5.9 array variable declarations
	100%	1.88%	A	5.10 if statement
	100%	1.88%	A	5.11 while statement
	100%	1.88%	A	5.12 read/write statement
	100%	1.88%	A	5.13 return statement
	100%	1.88%	A	5.14 assignment statement
	100%	1.88%	A	5.15 complex indirect structures involving [] and (), and expressions as array indexes
	100%	1.88%	A	5.16 complex expressions involving addop, multop, relop, unaryop, lindex, function calls
	100%	6.00%	A	6 Output - outsyntaxerrors file: Output of clear error messages (error description and location) in a file
	100%	1.20%	A	6.1 Clarity - error messages include a line number where the error was found
	100%	1.20%	A	6.2 Clarity - error messages describe what specific kind of error was found
	100%	1.20%	A	6.3 Clarity - error messages include the erroneous lexeme that correspond to the error found
	100%	1.20%	A	6.4 Correctness - errors are correctly identified and correct syntax is not reported as error.
	100%	1.20%	A	6.5 Completeness - all errors are reported - reset possible when error recovery is triggered
	100%	10.00%	A	7 Output - outderivation file: Output of a derivation corresponding to the parsing
	100%	5.00%	A	7.1 Clarity - derivation is somehow readable
	100%	5.00%	A	7.2 Correctness - output is really a derivation in the strict sense of the term
	100%	6.00%	A	8 Error recovery - the parser can recover from syntax errors
	100%	6.00%	A	8.1 Error recovery is implemented - the parser can recover after an error
	100%	24.00%	A	9 Test cases - completeness of testing (in addition to the provided files)
	100%	1.50%	A	9.1 class declaration
	100%	1.50%	A	9.2 data member declarations
	100%	1.50%	A	9.3 member function declarations
	100%	1.50%	A	9.4 inheritance list
	100%	1.50%	A	9.5 private/public members
	100%	1.50%	A	9.6 free function definitions
	100%	1.50%	A	9.7 member function definitions
	100%	1.50%	A	9.8 int, float, variable declarations
	100%	1.50%	A	9.9 array variable declarations
	100%	1.50%	A	9.10 if statement
	100%	1.50%	A	9.11 while statement
	100%	1.50%	A	9.12 read/write statement
	100%	1.50%	A	9.13 return statement
	100%	1.50%	A	9.14 assignment statement
	100%	1.50%	A	9.15 complex indirect structures involving [] and (), and expressions as array indexes
	100%	1.50%	A	9.16 complex expressions involving addop, multop, relop, unaryop, lindex, function calls
	100%	6.00%	A	10 Successful/correct use of tools/libraries/techniques in the analysis/implementation.
	100%	1.00%	A	10.1 The program never crashes or times out/exceeds
	100%	1.00%	A	10.2 Tools presented in the labs are used appropriately, or comparable tools are used appropriately