Marker:

Mk.	Comm.	Test cases features or implemented and tested in the assignment
A	A	class declarations
A	A	data member declarations
A	A	member function declarations
A	A	inheritance list
A	A	private/public members
A	A	free function definitions
A	A	member function definitions
A	A	local variable declarations
A	A	int, float, variable declarations
A	A	array variable declarations
A	A	if statement
A	A	while statement
A	A	read/write statement
A	A	return statement
A	A	assignment statement
A	A	complex ident structures involving [] and (), and expressions as array indexes
A	A	complex expressions involving addop, multop, relop, unaryop, ident, function calls

Notes	%mark	calc	letter		
	100%	10.00%		1	**Document Section 1 - Attribute grammar**
	100%	1.10%	A	1.1	Clarity - presentation of the attribute grammar is clear and understandable
	100%	3.30%	A	1.2	Completeness - all the rules of the grammar have been injected with the appropriate semantic action i.e. their right-hand-sides
	100%	6.60%	A	1.3	Statement of changed specification versus original specifications or the assignment statement (if applicable)
	100%	10.00%		2	**Document Section 2 - Description/rationale of the overall structure of the solution and the roles of the individual components used in the applied solution to the stated problem**
	100%	5.00%	A	2.1	Clarity - presentation of the design is clear and understandable
	100%	5.00%	A	2.2	Completeness - all implemented components are mentioned in the design description
	100%	20.00%		3	**Description/justification 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	3.1	All tools used in the analysis/implementation are mentioned
	100%	2.00%	A	3.2	Justification for all tools
	100%	50.00%		4	**Correct implementation of syntax-directed translation implemented as part of a top-down predictive parser following the grammar given in this handout, which is generating and AST (not a parse tree) data structure that correctly represents any valid program given in input.**
	100%	2.00%	A	4.1	class declarations
	100%	2.00%	A	4.2	data member declarations
	100%	2.00%	A	4.3	member function declarations
	100%	2.00%	A	4.4	inheritance list
	100%	2.00%	A	4.5	private/public members
	100%	2.00%	A	4.6	free function definitions
	100%	2.00%	A	4.7	member function definitions
	100%	2.00%	A	4.8	local variable declarations
	100%	2.00%	A	4.9	int, float, variable declarations
	100%	2.00%	A	4.10	array variable declarations
	100%	2.00%	A	4.11	if statement
	100%	2.00%	A	4.12	while statement
	100%	2.00%	A	4.13	read/write statement
	100%	2.00%	A	4.14	return statement
	100%	2.00%	A	4.15	assignment statement
	100%	2.00%	A	4.16	complex ident structures involving [] and (), and expressions as array indexes
	100%	2.00%	A	4.17	complex expressions involving addop, multop, relop, unaryop, ident, function calls
	100%	10.00%		5	**Output - output file Output of clearly readable AST in a file either in a text file or in dot format file**
	100%	3.33%	A	5.1	Clarity - file is clearly readable if it is a text file or is successfully readable by a dot reader to render the AST as a graph
	100%	3.33%	A	5.2	Correctness - the graph is an AST, as opposed to a parse tree.
	100%	3.33%	A	5.3	Completeness - all syntactical constructs' representations are output to a file
	100%	20.00%		6	**Test cases - completeness of testing (in addition to the provided files)**
	100%	1.18%	A	6.1	class declarations
	100%	1.18%	A	6.2	data member declarations
	100%	1.18%	A	6.3	member function declarations
	100%	1.18%	A	6.4	inheritance list
	100%	1.18%	A	6.5	private/public members
	100%	1.18%	A	6.6	free function definitions
	100%	1.18%	A	6.7	member function definitions
	100%	1.18%	A	6.8	local variable declarations
	100%	1.18%	A	6.9	int, float, variable declarations
	100%	1.18%	A	6.10	array variable declarations
	100%	1.18%	A	6.11	if statement
	100%	1.18%	A	6.12	while statement
	100%	1.18%	A	6.13	read/write statement
	100%	1.18%	A	6.14	return statement
	100%	1.18%	A	6.15	assignment statement
	100%	1.18%	A	6.16	complex ident structures involving [] and (), and expressions as array indexes
	100%	1.18%	A	6.17	complex expressions involving addop, multop, relop, unaryop, ident, function calls
	100%	5.00%	A	7	**Description/justification of tools/libraries/techniques used in the analysis/implementation.**
	100%	1.00%	A	7.1	The program never crashes on illegal expressions
	100%	3.00%	A	7.2	Tools presented in the rate are used appropriately, or comparable tools are used appropriately

Marker instructions

Enter values only in the red cells. Everything else is calculated automatically.
In Column D, enter either A, B, C, or F for each marking element
Enter notes in column A. These notes will be then automatically uploaded on moodle as feedback to the students.

Designer instructions

Add/remove some lines with red cells to add/remove evaluation criteria
When you add lines, add them only in the middle of the sees, or else the calculation is going to be wrong
To add lines, add a new line, then copy into it one of the existing rows.

Marking Criteria	Calc	Score Calc	Total marks
Document Section 1 - Attribute grammar	5	5.00	5.00
Document Section 2 - Description/rationale of the overall structure of the solution and the roles o	5	5.00	5.00
Document Section 3 - Description/justification of tools/libraries/techniques used in the analysis/implementation	2	1.00	2.00
Correct implementation of syntax-directed translation implemented as part of a top-down pred	20	20.00	20.00
Output - output file Output of clearly readable AST in a file either in a text file or in dot format. Ta	5	1.00	5.00
Test cases - completeness of testing (in addition to the provided files)	10	10.00	10.00
Successful/correct use of tools/libraries/techniques in the analysis/implementation	3	1.00	3.00
Total	50	42.00	50.00

All notes

1 : -
1.1 : A -
1.2 : A -
1.3 : A -
2 : -
2.1 : A -
2.2 : A -
3 : -
3.1 : A -
3.2 : A -
4 : -
4.1 : A -
4.2 : A -
4.3 : A -
4.4 : A -
4.5 : A -
4.6 : A -
4.7 : A -
4.8 : A -
4.9 : A -
4.10 : A -
4.11 : A -
4.12 : A -
4.13 : A -
4.14 : A -
4.15 : A -
4.16 : A -
4.17 : A -
5 : -
5.1 : A -
5.2 : A -
5.3 : A -
6 : -
6.1 : A -
6.2 : A -
6.3 : A -
6.4 : A -
6.5 : A -
6.6 : A -
6.7 : A -
6.8 : A -
6.9 : A -
6.10 : A -
6.11 : A -
6.12 : A -
6.13 : A -
6.14 : A -
6.15 : A -
6.16 : A -
6.17 : A -
7 : -
7.1 : A -
7.2 : A -