

Started on	Monday, 12 June 2023, 1:44 PM
State	Finished
Completed on	Monday, 12 June 2023, 2:27 PM
Time taken	42 mins 37 secs
Marks	2.70/3.00
Grade	9.00 out of 10.00 (90%)

Question 1

Correct

Mark 1.00 out of 1.00








Use ANTLR to write regular expressions describing a Pascal identifier that must begin with a lowercase letter ('a' to 'z'), but may continue with many characters which are lowercase letter or digit ('0' to '9').

For example:

Test	Result
"abc"	abc, <EOF>

Answer: (penalty regime: 10, 20, ... %)

1	
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-  [BKOOL.interp](#)
-  [BKOOL.tokens](#)
-  [BKOOLLexer.interp](#)
-  [BKOOLLexer.py](#)
-  [BKOOLLexer.tokens](#)
-  [BKOOLParser.py](#)
-  [BKOOLVisitor.py](#)

	Test	Expected	Got	
✓	"abc"	abc, <EOF>	abc, <EOF>	✓
✓	"abc a12"	abc, a12, <EOF>	abc, a12, <EOF>	✓
✓	"abc A12"	abc, Error Token A	abc, Error Token A	✓
✓	"abc?svn"	abc, Error Token ?	abc, Error Token ?	✓
✓	"0a12"	Error Token 0	Error Token 0	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question 2

Correct

Mark 0.80 out of 1.00








Use ANTLR to write regular expressions describing Pascal tokens For a number to be taken as "real" (or "floating point") format, it must either have a decimal point, or use scientific notation. For example, 1.0, 1e-12, 1.0e-12, 0.000000001 are all valid reals. At least one digit must exist on either side of a decimal point.

For example:

Test	Result
"1.0"	1.0, <EOF>

Answer: (penalty regime: 10, 20, ... %)

1	
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-  [BKOOL.interp](#)
-  [BKOOL.tokens](#)
-  [BKOOLLexer.interp](#)
-  [BKOOLLexer.py](#)
-  [BKOOLLexer.tokens](#)
-  [BKOOLParser.py](#)
-  [BKOOLVisitor.py](#)

	Test	Expected	Got	
✓	"1.0"	1.0, <EOF>	1.0, <EOF>	✓
✓	"1e-12"	1e-12, <EOF>	1e-12, <EOF>	✓
✓	"1.0e-12"	1.0e-12, <EOF>	1.0e-12, <EOF>	✓
✓	"0.001"	0.001, <EOF>	0.001, <EOF>	✓
✓	".01"	Error Token .	Error Token .	✓
✓	"'0.01'"	Error Token '	Error Token '	✓

	Test	Expected	Got	
✓	"1.0e"	1.0,Error Token e	1.0,Error Token e	✓
✓	"0e123"	0e123,<EOF>	0e123,<EOF>	✓
✓	".e123"	Error Token .	Error Token .	✓
✓	"e123"	Error Token e	Error Token e	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00. Accounting for previous tries, this gives **0.80/1.00**.

Question 3

Correct

Mark 0.90 out of 1.00








Use ANTLR to write regular expressions describing Pascal strings are made up of a sequence of characters between single quotes: 'string'. The single quote itself can appear as two single quotes back to back in a string: 'isn't'.

For example:

Test	Result
"'Yanxi Palace - 2018'"	'Yanxi Palace - 2018',<EOF>

Answer: (penalty regime: 10, 20, ... %)

1

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-  [BKOOLLexer.py](#)
-  [BKOOLLexer.tokens](#)
-  [BKOOLParser.py](#)
-  [BKOOLVisitor.py](#)

	Test	Expected	Got	
✓	"'Yanxi Palace - 2018'"	'Yanxi Palace - 2018',<EOF>	'Yanxi Palace - 2018',<EOF>	✓
✓	"'abc?svn'"	'abc?svn',<EOF>	'abc?svn',<EOF>	✓
✓	"'1.0e-12'"	'1.0e-12',<EOF>	'1.0e-12',<EOF>	✓
✓	"'0.001' '"	'0.001',Error Token '	'0.001',Error Token '	✓
✓	"'0.001' '"	'0.001'','',<EOF>	'0.001'','',<EOF>	✓

Passed all tests! ✓

Correct

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