

PARSER Test Cases and Results

Successful Parse Code Block	Log Results
{}\$	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1... LEXER --> T_CLOSING_BRACE [}] on line 1... LEXER --> T_EOPS [\$] on line 1...</p> <p>Lex Completed With 0 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1... PARSER --> PASSED! λ production on line 1... PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 1... PARSER --> PASSED! Expecting [T_EOPS] found [T_EOPS] on line 1...</p> <p>Parse Completed With 0 WARNING(S) and 0 ERROR(S)...</p>
{ print("there is no spoon") }\$	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1... LEXER --> T_PRINT [print] on line 2... LEXER --> T_OPENING_PARENTHESIS [(] on line 2... LEXER --> T_QUOTE ["] on line 2... LEXER --> T_CHAR [t] on line 2... LEXER --> T_CHAR [h] on line 2... LEXER --> T_CHAR [e] on line 2... LEXER --> T_CHAR [r] on line 2... LEXER --> T_CHAR [e] on line 2... LEXER --> T_CHAR [] on line 2... LEXER --> T_CHAR [i] on line 2... LEXER --> T_CHAR [s] on line 2... LEXER --> T_CHAR [] on line 2... LEXER --> T_CHAR [n] on line 2... LEXER --> T_CHAR [o] on line 2... LEXER --> T_CHAR [] on line 2... LEXER --> T_CHAR [s] on line 2... LEXER --> T_CHAR [p] on line 2... LEXER --> T_CHAR [o] on line 2... LEXER --> T_CHAR [o] on line 2... LEXER --> T_CHAR [n] on line 2... LEXER --> T_QUOTE ["] on line 2... LEXER --> T_CLOSING_PARENTHESIS [)] on line 2... LEXER --> T_CLOSING_BRACE [}] on line 3... LEXER --> T_EOPS [\$] on line 3...</p>

PARSER Test Cases and Results

	<p>Lex Completed With 0 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 2...</p> <p>PARSER --> PASSED! Expecting [PrintStatement] found [T_PRINT] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_PRINT] found [T_PRINT] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 2...</p> <p>PARSER --> PASSED! Expecting [Expr] found [StringExpr] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [t] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [h] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [e] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [r] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [e] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [i] on line 2...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [s] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [n] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [s] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [p] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [n] on line 2...</p> <p>PARSER --> PASSED! λ production on line 2...</p> <p>PARSER --> PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 2...</p> <p>PARSER --> PASSED! λ production on line 3...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 3...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [T_EOPS] found [T_EOPS] on line 3...</p> <p>Parse Completed With 0 WARNING(S) and 0 ERROR(S)...</p>
<pre> { print((false == true)) print((true != true)) print((false != false)) print((false != true)) } </pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1...</p> <p>LEXER --> T_PRINT [print] on line 2...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 2...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 2...</p> <p>LEXER --> T_BOOLEAN_VALUE [false] on line 2...</p> <p>LEXER --> T_EQUALITY_OP [==] on line 2...</p> <p>LEXER --> T_BOOLEAN_VALUE [true] on line 2...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 2...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 2...</p> <p>LEXER --> T_PRINT [print] on line 3...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 3...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 3...</p> <p>LEXER --> T_BOOLEAN_VALUE [true] on line 3...</p> <p>LEXER --> T_INEQUALITY_OP [!=] on line 3...</p> <p>LEXER --> T_BOOLEAN_VALUE [true] on line 3...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 3...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 3...</p> <p>LEXER --> T_PRINT [print] on line 4...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 4...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 4...</p> <p>LEXER --> T_BOOLEAN_VALUE [false] on line 4...</p> <p>LEXER --> T_INEQUALITY_OP [!=] on line 4...</p> <p>LEXER --> T_BOOLEAN_VALUE [false] on line 4...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 4...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 4...</p> <p>LEXER --> T_PRINT [print] on line 5...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 5...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 5...</p> <p>LEXER --> T_BOOLEAN_VALUE [false] on line 5...</p> <p>LEXER --> T_INEQUALITY_OP [!=] on line 5...</p> <p>LEXER --> T_BOOLEAN_VALUE [true] on line 5...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 5...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 5...</p> <p>LEXER --> T_CLOSING_BRACE [}] on line 6...</p> <p>LEXER --> WARNING! NO EOPS [\$] detected. Added to end-of-file at line 6...</p> <p>Lex Completed With 1 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p>

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 2...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 2...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 2...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 2...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 2...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 2...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 2...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 2...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [false] on line 2...

PARSER --> | PASSED! Expecting [T_EQUALITY_OP] found [==] on line 2...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 2...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 2...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [true] on line 2...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 2...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 2...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 3...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 3...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 3...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 3...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 3...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 3...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 3...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 3...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 3...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [true] on line 3...

PARSER --> | PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 3...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 3...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 3...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [true] on line 3...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 3...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 3...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 4...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 4...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 4...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 4...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 4...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 4...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 4...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 4...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 4...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [false] on line 4...

PARSER --> | PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 4...

PARSER --> | PASSED! Expecting [Expr] found [BooleanExpr] on line 4...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 4...

PARSER --> | PASSED! Expecting [T_BOOLEAN_VALUE] found [false] on line 4...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 4...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 4...

PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 5...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 5...</p> <p>PARSER --> PASSED! Expecting [PrintStatement] found [T_PRINT] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_PRINT] found [T_PRINT] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 5...</p> <p>PARSER --> PASSED! Expecting [Expr] found [BooleanExpr] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 5...</p> <p>PARSER --> PASSED! Expecting [Expr] found [BooleanExpr] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_BOOLEAN_VALUE] found [false] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 5...</p> <p>PARSER --> PASSED! Expecting [Expr] found [BooleanExpr] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_BOOLEAN_VALUE] found [T_BOOLEAN_VALUE] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_BOOLEAN_VALUE] found [true] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 5...</p> <p>PARSER --> PASSED! λ production on line 6...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 6...</p> <p>PARSER --> PASSED! Expecting [T_EOPS] found [T_EOPS] on line 6...</p> <p>Parse Completed With 0 WARNING(S) and 0 ERROR(S)...</p>
<pre> { int a int b a = 0 b = 0 while (a != 3) { </pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1...</p> <p>LEXER --> T_VARIABLE_TYPE [int] on line 2...</p> <p>LEXER --> T_ID [a] on line 2...</p> <p>LEXER --> T_VARIABLE_TYPE [int] on line 3...</p> <p>LEXER --> T_ID [b] on line 3...</p> <p>LEXER --> T_ID [a] on line 5...</p>

PARSER Test Cases and Results

<pre> print(a) while (b != 3) { print(b) b = 1 + b if (b == 2) { print("there is no spoon") } } b = 0 a = 1 + a } }\$ </pre>	<pre> LEXER --> T_ASSIGNMENT_OP [=] on line 5... LEXER --> T_DIGIT [0] on line 5... LEXER --> T_ID [b] on line 6... LEXER --> T_ASSIGNMENT_OP [=] on line 6... LEXER --> T_DIGIT [0] on line 6... LEXER --> T_WHILE [while] on line 8... LEXER --> T_OPENING_PARENTHESIS [(] on line 8... LEXER --> T_ID [a] on line 8... LEXER --> T_INEQUALITY_OP [!=] on line 8... LEXER --> T_DIGIT [3] on line 8... LEXER --> T_CLOSING_PARENTHESIS [)] on line 8... LEXER --> T_OPENING_BRACE [{] on line 8... LEXER --> T_PRINT [print] on line 9... LEXER --> T_OPENING_PARENTHESIS [(] on line 9... LEXER --> T_ID [a] on line 9... LEXER --> T_CLOSING_PARENTHESIS [)] on line 9... LEXER --> T_WHILE [while] on line 10... LEXER --> T_OPENING_PARENTHESIS [(] on line 10... LEXER --> T_ID [b] on line 10... LEXER --> T_INEQUALITY_OP [!=] on line 10... LEXER --> T_DIGIT [3] on line 10... LEXER --> T_CLOSING_PARENTHESIS [)] on line 10... LEXER --> T_OPENING_BRACE [{] on line 10... LEXER --> T_PRINT [print] on line 11... LEXER --> T_OPENING_PARENTHESIS [(] on line 11... LEXER --> T_ID [b] on line 11... LEXER --> T_CLOSING_PARENTHESIS [)] on line 11... LEXER --> T_ID [b] on line 12... LEXER --> T_ASSIGNMENT_OP [=] on line 12... LEXER --> T_DIGIT [1] on line 12... LEXER --> T_ADDITION_OP [+] on line 12... LEXER --> T_ID [b] on line 12... LEXER --> T_IF [if] on line 13... LEXER --> T_OPENING_PARENTHESIS [(] on line 13... LEXER --> T_ID [b] on line 13... LEXER --> T_EQUALITY_OP [==] on line 13... LEXER --> T_DIGIT [2] on line 13... LEXER --> T_CLOSING_PARENTHESIS [)] on line 13... LEXER --> T_OPENING_BRACE [{] on line 13... LEXER --> T_PRINT [print] on line 14... LEXER --> T_OPENING_PARENTHESIS [(] on line 14... LEXER --> T_QUOTE ["] on line 14... LEXER --> T_CHAR [t] on line 14... LEXER --> T_CHAR [h] on line 14... LEXER --> T_CHAR [e] on line 14... LEXER --> T_CHAR [r] on line 14... LEXER --> T_CHAR [e] on line 14... LEXER --> T_CHAR [] on line 14... </pre>
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PARSER Test Cases and Results

```
LEXER --> | T_CHAR [ i ] on line 14...
LEXER --> | T_CHAR [ s ] on line 14...
LEXER --> | T_CHAR [ ] on line 14...
LEXER --> | T_CHAR [ n ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ ] on line 14...
LEXER --> | T_CHAR [ s ] on line 14...
LEXER --> | T_CHAR [ p ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ n ] on line 14...
LEXER --> | T_QUOTE [ " ] on line 14...
LEXER --> | T_CLOSING_PARENTHESIS [ ) ] on line 14...
LEXER --> | T_CLOSING_BRACE [ } ] on line 15...
LEXER --> | T_CLOSING_BRACE [ } ] on line 16...
LEXER --> | T_ID [ b ] on line 18...
LEXER --> | T_ASSIGNMENT_OP [ = ] on line 18...
LEXER --> | T_DIGIT [ 0 ] on line 18...
LEXER --> | T_ID [ a ] on line 19...
LEXER --> | T_ASSIGNMENT_OP [ = ] on line 19...
LEXER --> | T_DIGIT [ 1 ] on line 19...
LEXER --> | T_ADDITION_OP [ + ] on line 19...
LEXER --> | T_ID [ a ] on line 19...
LEXER --> | T_CLOSING_BRACE [ } ] on line 20...
LEXER --> | T_CLOSING_BRACE [ } ] on line 21...
LEXER --> | T_EOPS [ $ ] on line 21...
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Lex Completed With 0 WARNING(S) and 0 ERROR(S)...

Beginning Parsing Session...

```
PARSER --> | PASSED! Expecting [ T_OPENING_BRACE ] found
[ T_OPENING_BRACE ] on line 1...
PARSER --> | PASSED! Expecting [ Statement ] found
[ Statement ] on line 2...
PARSER --> | PASSED! Expecting [ VarDecl ] found
[ T_VARIABLE_TYPE ] on line 2...
PARSER --> | PASSED! Expecting [ T_VARIABLE_TYPE ] found
[ T_VARIABLE_TYPE ] on line 2...
PARSER --> | PASSED! Expecting [ T_VARIABLE_TYPE ] found
[ int ] on line 2...
PARSER --> | PASSED! Expecting [ T_ID ] found [ T_ID ] on line
2...
PARSER --> | PASSED! Expecting [ T_ID ] found [ a ] on line 2...
PARSER --> | PASSED! Expecting [ StatementList ] found
[ Statement ] on line 3...
PARSER --> | PASSED! Expecting [ Statement ] found
[ Statement ] on line 3...
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [VarDecl] found [T_VARIABLE_TYPE] on line 3...</p> <p>PARSER --> PASSED! Expecting [T_VARIABLE_TYPE] found [T_VARIABLE_TYPE] on line 3...</p> <p>PARSER --> PASSED! Expecting [T_VARIABLE_TYPE] found [int] on line 3...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 3...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 3...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 5...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 5...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 5...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 5...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [IntExpr] on line 5...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [0] on line 5...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 6...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 6...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 6...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 6...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 6...</p> <p>PARSER --> PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 6...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 6...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [IntExpr] on line 6...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [0] on line 6...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 8...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 8...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [WhileStatement] found [T_WHILE] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_WHILE] found [while] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 8...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 8...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 8...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [IntExpr] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [3] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 8...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 8...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 9...</p> <p>PARSER --> PASSED! Expecting [PrintStatement] found [T_PRINT] on line 9...</p> <p>PARSER --> PASSED! Expecting [T_PRINT] found [T_PRINT] on line 9...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 9...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 9...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 9...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 9...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 10...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 10...</p> <p>PARSER --> PASSED! Expecting [WhileStatement] found [T_WHILE] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_WHILE] found [while] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 10...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 10...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 10...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [IntExpr] found [IntExpr] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [3] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 10...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 10...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 11...</p> <p>PARSER --> PASSED! Expecting [PrintStatement] found [T_PRINT] on line 11...</p> <p>PARSER --> PASSED! Expecting [T_PRINT] found [T_PRINT] on line 11...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 11...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 11...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 11...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 11...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 12...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 12...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 12...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 12...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [T_DIGIT] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [1] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_ADDITION_OP] found [+] on line 12...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 12...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 12...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 13...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 13...</p> <p>PARSER --> PASSED! Expecting [IfStatement] found [T_IF] on line 13...</p> <p>PARSER --> PASSED! Expecting [T_IF] found [if] on line 13...</p>
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PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 13...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 13...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 13...

PARSER --> | PASSED! Expecting [T_EQUALITY_OP] found [==] on line 13...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 13...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 13...

PARSER --> | PASSED! Expecting [T_DIGIT] found [2] on line 13...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 13...

PARSER --> | PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 13...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 14...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 14...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 14...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 14...

PARSER --> | PASSED! Expecting [Expr] found [StringExpr] on line 14...

PARSER --> | PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [t] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [h] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [e] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [r] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [e] on line 14...

PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [i] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [s] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [n] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [s] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [p] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [o] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CHAR] found [n] on line 14...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! λ production on line 14...</p> <p>PARSER --> PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 14...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 14...</p> <p>PARSER --> PASSED! λ production on line 15...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 15...</p> <p>PARSER --> PASSED! λ production on line 16...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 16...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 18...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 18...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 18...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 18...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [b] on line 18...</p> <p>PARSER --> PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 18...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 18...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [IntExpr] on line 18...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [0] on line 18...</p> <p>PARSER --> PASSED! Expecting [StatementList] found [Statement] on line 19...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 19...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 19...</p> <p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 19...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [T_DIGIT] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [1] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_ADDITION_OP] found [+] on line 19...</p> <p>PARSER --> PASSED! Expecting [Expr] found [Id] on line 19...</p>
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PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 19...</p> <p>PARSER --> PASSED! λ production on line 20...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 20...</p> <p>PARSER --> PASSED! λ production on line 21...</p> <p>PARSER --> PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 21...</p> <p>PARSER --> PASSED! Expecting [T_EOPS] found [T_EOPS] on line 21...</p> <p>Parse Completed With 0 WARNING(S) and 0 ERROR(S)...</p>
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Failed Lex Code Block	Log Results
<pre>{ string 1 }\$</pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1...</p> <p>LEXER --> T_VARIABLE_TYPE [string] on line 2...</p> <p>LEXER --> T_DIGIT [1] on line 2...</p> <p>LEXER --> T_CLOSING_BRACE [}] on line 3...</p> <p>LEXER --> T_EOPS [\$] on line 3...</p> <p>Lex Completed With 0 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 2...</p> <p>PARSER --> PASSED! Expecting [VarDecl] found [T_VARIABLE_TYPE] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_VARIABLE_TYPE] found [T_VARIABLE_TYPE] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_VARIABLE_TYPE] found [string] on line 2...</p> <p>PARSER --> ERROR! Expecting [T_ID] found [1] on line 2...</p> <p>Parse Completed With 0 WARNING(S) and 1 ERROR(S)...</p>
<pre>{ a + 3 }\$</pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1...</p> <p>LEXER --> T_ID [a] on line 2...</p> <p>LEXER --> T_ADDITION_OP [+] on line 2...</p> <p>LEXER --> T_DIGIT [3] on line 2...</p> <p>LEXER --> T_CLOSING_BRACE [}] on line 3...</p>

PARSER Test Cases and Results

	<p>LEXER --> T_EOPS [\$] on line 3...</p> <p>Lex Completed With 0 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 2...</p> <p>PARSER --> PASSED! Expecting [AssignmentStatement] found [T_ID] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [T_ID] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_ID] found [a] on line 2...</p> <p>PARSER --> ERROR! Expecting [=] found [+] on line 2...</p> <p>Parse Completed With 0 WARNING(S) and 1 ERROR(S)...</p>
<pre>{ print(\$) }\$</pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <p>LEXER --> T_OPENING_BRACE [{] on line 1...</p> <p>LEXER --> T_PRINT [print] on line 2...</p> <p>LEXER --> T_OPENING_PARENTHESIS [(] on line 2...</p> <p>LEXER --> T_EOPS [\$] on line 2...</p> <p>LEXER --> T_CLOSING_PARENTHESIS [)] on line 2...</p> <p>LEXER --> T_CLOSING_BRACE [}] on line 3...</p> <p>LEXER --> T_EOPS [\$] on line 3...</p> <p>Lex Completed With 0 WARNING(S) and 0 ERROR(S)...</p> <p>Beginning Parsing Session...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 1...</p> <p>PARSER --> PASSED! Expecting [Statement] found [Statement] on line 2...</p> <p>PARSER --> PASSED! Expecting [PrintStatement] found [T_PRINT] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_PRINT] found [T_PRINT] on line 2...</p> <p>PARSER --> PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 2...</p> <p>PARSER --> ERROR! Expecting [IntExpr StringExpr BooleanExpr Id] found [\$] on line 2...</p> <p>Parse Completed With 0 WARNING(S) and 1 ERROR(S)...</p>

PARSER Test Cases and Results

<pre> { int a int b a = 0 b = 0 while (a != 3) { print(a) while (b != 3) { print(b) b = 1 + b if (b == 2) { print("there is no spoon") } } b = 0 a = 1 + } } \$ </pre>	<p>Beginning Lexing Session... *Stings Treated As CharList*</p> <pre> LEXER --> T_OPENING_BRACE [{] on line 1... LEXER --> T_VARIABLE_TYPE [int] on line 2... LEXER --> T_ID [a] on line 2... LEXER --> T_VARIABLE_TYPE [int] on line 3... LEXER --> T_ID [b] on line 3... LEXER --> T_ID [a] on line 5... LEXER --> T_ASSIGNMENT_OP [=] on line 5... LEXER --> T_DIGIT [0] on line 5... LEXER --> T_ID [b] on line 6... LEXER --> T_ASSIGNMENT_OP [=] on line 6... LEXER --> T_DIGIT [0] on line 6... LEXER --> T_WHILE [while] on line 8... LEXER --> T_OPENING_PARENTHESIS [(] on line 8... LEXER --> T_ID [a] on line 8... LEXER --> T_INEQUALITY_OP [!=] on line 8... LEXER --> T_DIGIT [3] on line 8... LEXER --> T_CLOSING_PARENTHESIS [)] on line 8... LEXER --> T_OPENING_BRACE [{] on line 8... LEXER --> T_PRINT [print] on line 9... LEXER --> T_OPENING_PARENTHESIS [(] on line 9... LEXER --> T_ID [a] on line 9... LEXER --> T_CLOSING_PARENTHESIS [)] on line 9... LEXER --> T_WHILE [while] on line 10... LEXER --> T_OPENING_PARENTHESIS [(] on line 10... LEXER --> T_ID [b] on line 10... LEXER --> T_INEQUALITY_OP [!=] on line 10... LEXER --> T_DIGIT [3] on line 10... LEXER --> T_CLOSING_PARENTHESIS [)] on line 10... LEXER --> T_OPENING_BRACE [{] on line 10... LEXER --> T_PRINT [print] on line 11... LEXER --> T_OPENING_PARENTHESIS [(] on line 11... LEXER --> T_ID [b] on line 11... LEXER --> T_CLOSING_PARENTHESIS [)] on line 11... LEXER --> T_ID [b] on line 12... LEXER --> T_ASSIGNMENT_OP [=] on line 12... LEXER --> T_DIGIT [1] on line 12... LEXER --> T_ADDITION_OP [+] on line 12... LEXER --> T_ID [b] on line 12... LEXER --> T_IF [if] on line 13... LEXER --> T_OPENING_PARENTHESIS [(] on line 13... LEXER --> T_ID [b] on line 13... LEXER --> T_EQUALITY_OP [==] on line 13... LEXER --> T_DIGIT [2] on line 13... LEXER --> T_CLOSING_PARENTHESIS [)] on line 13... LEXER --> T_OPENING_BRACE [{] on line 13... LEXER --> T_PRINT [print] on line 14... </pre>
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PARSER Test Cases and Results

```
LEXER --> | T_OPENING_PARENTHESIS [ ( ] on line 14...
LEXER --> | T_QUOTE [ " ] on line 14...
LEXER --> | T_CHAR [ t ] on line 14...
LEXER --> | T_CHAR [ h ] on line 14...
LEXER --> | T_CHAR [ e ] on line 14...
LEXER --> | T_CHAR [ r ] on line 14...
LEXER --> | T_CHAR [ e ] on line 14...
LEXER --> | T_CHAR [ ] on line 14...
LEXER --> | T_CHAR [ i ] on line 14...
LEXER --> | T_CHAR [ s ] on line 14...
LEXER --> | T_CHAR [ ] on line 14...
LEXER --> | T_CHAR [ n ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ ] on line 14...
LEXER --> | T_CHAR [ s ] on line 14...
LEXER --> | T_CHAR [ p ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ o ] on line 14...
LEXER --> | T_CHAR [ n ] on line 14...
LEXER --> | T_QUOTE [ " ] on line 14...
LEXER --> | T_CLOSING_PARENTHESIS [ ) ] on line 14...
LEXER --> | T_CLOSING_BRACE [ } ] on line 15...
LEXER --> | T_CLOSING_BRACE [ } ] on line 16...
LEXER --> | T_ID [ b ] on line 18...
LEXER --> | T_ASSIGNMENT_OP [ = ] on line 18...
LEXER --> | T_DIGIT [ 0 ] on line 18...
LEXER --> | T_ID [ a ] on line 19...
LEXER --> | T_ASSIGNMENT_OP [ = ] on line 19...
LEXER --> | T_DIGIT [ 1 ] on line 19...
LEXER --> | T_ADDITION_OP [ + ] on line 19...
LEXER --> | T_CLOSING_BRACE [ } ] on line 20...
LEXER --> | T_CLOSING_BRACE [ } ] on line 21...
LEXER --> | T_EOPS [ $ ] on line 21...
```

Lex Completed With 0 WARNING(S) and 0 ERROR(S)...

Beginning Parsing Session...

```
PARSER --> | PASSED! Expecting [ T_OPENING_BRACE ] found
[ T_OPENING_BRACE ] on line 1...
PARSER --> | PASSED! Expecting [ Statement ] found
[ Statement ] on line 2...
PARSER --> | PASSED! Expecting [ VarDecl ] found
[ T_VARIABLE_TYPE ] on line 2...
PARSER --> | PASSED! Expecting [ T_VARIABLE_TYPE ] found
[ T_VARIABLE_TYPE ] on line 2...
PARSER --> | PASSED! Expecting [ T_VARIABLE_TYPE ] found
[ int ] on line 2...
```

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 2...

PARSER --> | PASSED! Expecting [T_ID] found [a] on line 2...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 3...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 3...

PARSER --> | PASSED! Expecting [VarDecl] found [T_VARIABLE_TYPE] on line 3...

PARSER --> | PASSED! Expecting [T_VARIABLE_TYPE] found [T_VARIABLE_TYPE] on line 3...

PARSER --> | PASSED! Expecting [T_VARIABLE_TYPE] found [int] on line 3...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 3...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 3...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 5...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 5...

PARSER --> | PASSED! Expecting [AssignmentStatement] found [T_ID] on line 5...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 5...

PARSER --> | PASSED! Expecting [T_ID] found [a] on line 5...

PARSER --> | PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 5...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 5...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 5...

PARSER --> | PASSED! Expecting [T_DIGIT] found [0] on line 5...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 6...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 6...

PARSER --> | PASSED! Expecting [AssignmentStatement] found [T_ID] on line 6...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 6...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 6...

PARSER --> | PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 6...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 6...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 6...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_DIGIT] found [0] on line 6...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 8...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 8...

PARSER --> | PASSED! Expecting [WhileStatement] found [T_WHILE] on line 8...

PARSER --> | PASSED! Expecting [T_WHILE] found [while] on line 8...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 8...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 8...

PARSER --> | PASSED! Expecting [T_ID] found [a] on line 8...

PARSER --> | PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 8...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 8...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 8...

PARSER --> | PASSED! Expecting [T_DIGIT] found [3] on line 8...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 8...

PARSER --> | PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 8...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 9...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 9...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 9...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 9...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 9...

PARSER --> | PASSED! Expecting [T_ID] found [a] on line 9...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 9...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 10...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 10...

PARSER --> | PASSED! Expecting [WhileStatement] found [T_WHILE] on line 10...

PARSER --> | PASSED! Expecting [T_WHILE] found [while] on line 10...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 10...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 10...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 10...

PARSER --> | PASSED! Expecting [T_INEQUALITY_OP] found [!=] on line 10...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 10...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 10...

PARSER --> | PASSED! Expecting [T_DIGIT] found [3] on line 10...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 10...

PARSER --> | PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 10...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 11...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 11...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 11...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 11...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 11...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 11...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 11...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 12...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 12...

PARSER --> | PASSED! Expecting [AssignmentStatement] found [T_ID] on line 12...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 12...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 12...

PARSER --> | PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 12...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 12...

PARSER --> | PASSED! Expecting [IntExpr] found [T_DIGIT] on line 12...

PARSER --> | PASSED! Expecting [T_DIGIT] found [1] on line 12...

PARSER --> | PASSED! Expecting [T_ADDITION_OP] found [+] on line 12...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 12...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 12...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 13...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 13...

PARSER --> | PASSED! Expecting [IfStatement] found [T_IF] on line 13...

PARSER --> | PASSED! Expecting [T_IF] found [if] on line 13...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [(] on line 13...

PARSER --> | PASSED! Expecting [Expr] found [Id] on line 13...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 13...

PARSER --> | PASSED! Expecting [T_EQUALITY_OP] found [==] on line 13...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 13...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 13...

PARSER --> | PASSED! Expecting [T_DIGIT] found [2] on line 13...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [)] on line 13...

PARSER --> | PASSED! Expecting [T_OPENING_BRACE] found [T_OPENING_BRACE] on line 13...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 14...

PARSER --> | PASSED! Expecting [PrintStatement] found [T_PRINT] on line 14...

PARSER --> | PASSED! Expecting [T_PRINT] found [T_PRINT] on line 14...

PARSER --> | PASSED! Expecting [T_OPENING_PARENTHESIS] found [T_OPENING_PARENTHESIS] on line 14...

PARSER --> | PASSED! Expecting [Expr] found [StringExpr] on line 14...

PARSER --> | PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [t] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [h] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [e] on line 14...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [r] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [e] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [i] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [s] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [n] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [o] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [s] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [p] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [o] on line 14...

PARSER Test Cases and Results

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [o] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [T_CHAR] on line 14...

PARSER --> | PASSED! Expecting [T_CHAR] found [n] on line 14...

PARSER --> | PASSED! λ production on line 14...

PARSER --> | PASSED! Expecting [T_QUOTE] found [T_QUOTE] on line 14...

PARSER --> | PASSED! Expecting [T_CLOSING_PARENTHESIS] found [T_CLOSING_PARENTHESIS] on line 14...

PARSER --> | PASSED! λ production on line 15...

PARSER --> | PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 15...

PARSER --> | PASSED! λ production on line 16...

PARSER --> | PASSED! Expecting [T_CLOSING_BRACE] found [T_CLOSING_BRACE] on line 16...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 18...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 18...

PARSER --> | PASSED! Expecting [AssignmentStatement] found [T_ID] on line 18...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 18...

PARSER --> | PASSED! Expecting [T_ID] found [b] on line 18...

PARSER --> | PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 18...

PARSER --> | PASSED! Expecting [Expr] found [IntExpr] on line 18...

PARSER --> | PASSED! Expecting [IntExpr] found [IntExpr] on line 18...

PARSER --> | PASSED! Expecting [T_DIGIT] found [0] on line 18...

PARSER --> | PASSED! Expecting [StatementList] found [Statement] on line 19...

PARSER --> | PASSED! Expecting [Statement] found [Statement] on line 19...

PARSER --> | PASSED! Expecting [AssignmentStatement] found [T_ID] on line 19...

PARSER --> | PASSED! Expecting [T_ID] found [T_ID] on line 19...

PARSER --> | PASSED! Expecting [T_ID] found [a] on line 19...

PARSER --> | PASSED! Expecting [T_ASSIGNMENT_OP] found [=] on line 19...

PARSER Test Cases and Results

	<p>PARSER --> PASSED! Expecting [Expr] found [IntExpr] on line 19...</p> <p>PARSER --> PASSED! Expecting [IntExpr] found [T_DIGIT] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_DIGIT] found [1] on line 19...</p> <p>PARSER --> PASSED! Expecting [T_ADDITION_OP] found [+] on line 19...</p> <p>PARSER --> ERROR! Expecting [IntExpr StringExpr BooleanExpr Id] found [}] on line 20...</p> <p>Parse Completed With 0 WARNING(S) and 1 ERROR(S)...</p>
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