

June 18, 2024

[test1.txt]

[illegible]

Screenshot

[test2.txt]

[illegible]

[illegible]

[test1error.txt]

```
SB:LRparser gimseongbin$ java -cp bin/ LRparser testCaseLRparser/test1error.txt
[S] S0 $
[S] S0 $ S2 program
[S] S0 $ S2 program S3 identifier
[S] S0 $ S2 program S3 identifier S5 begin
[S] S0 $ S2 program S3 identifier S5 begin S25 int
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 =
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S113 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S111 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S110 TERM
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S109 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S108 EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 ,
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 =
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S113 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S111 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S110 TERM
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S109 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S108 EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S78 ,
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S78 , S42 identifier
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S143 VARIABLE_DECLARATIONS
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S143 VARIABLE_DECLARATIONS
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S77 VARIABLE_DECLARATIONS
[R] S0 $ S2 program S3 identifier S5 begin S17 DECLARATION_STMT
[R] S0 $ S2 program S3 identifier S5 begin S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 (
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S62 identifier
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S61 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S60 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S48 <
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR S127 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR S125 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR S124 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR S123 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S58 EXPRESSION
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S36 ( S58 EXPRESSION S92 )
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S33 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S32 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S31 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S21 print_line
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S21 print_line S40 (
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S21 print_line S40 ( S75 string_literal
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S21 print_line S40 ( S75 string_literal S105 )
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S16 PRINT_STMT
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 =
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 = S73 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 = S71 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 = S70 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 = S69 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S20 identifier S39 = S68 EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S15 ASSIGNMENT_STMT
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S7 STMT
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S7 STMT S28 STMTS
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S83 STMTS
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S12 if S30 EXPRESSION S45 begin S83 STMTS S118 end
Syntax error at token index 31: (
Parsing Failed
SB:LRparser gimseongbin$
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[test2error.txt]

```
SB:LRparser gimseongbin$ java -cp bin/ LRparser testCaseLRparser/test2error.txt
[S] S0 $
[S] S0 $ S2 program
[S] S0 $ S2 program S3 identifier
[S] S0 $ S2 program S3 identifier S5 begin
[S] S0 $ S2 program S3 identifier S5 begin S25 int
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 =
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S113 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S111 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S110 TERM
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S109 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S42 identifier S79 = S108 EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 ,
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 =
[S] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S113 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S111 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S110 TERM
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S109 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S42 identifier S79 = S108 EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S78 , S107 VARIABLE_DECLARATION S143 VARIABLE_DECLARATIONS
[R] S0 $ S2 program S3 identifier S5 begin S22 TYPE S41 VARIABLE_DECLARATION S77 VARIABLE_DECLARATIONS
[R] S0 $ S2 program S3 identifier S5 begin S17 DECLARATION_STMT
[R] S0 $ S2 program S3 identifier S5 begin S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S13 while
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S13 while S36 (
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S13 while S36 ( S62 identifier
Syntax error at token index 15: ?
Parsing Failed
SB:LRparser gimseongbin$
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[illegible]


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[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 =
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S72 identifier
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S71 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S70 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION S52 +
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION S101 ADDING_OPERATOR
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION S101 ADDING_OPERATOR S73 number_literal
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION S101 ADDING_OPERATOR S71 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION S101 ADDING_OPERATOR S140 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S20 identifier S39 = S69 SIMPLE_EXPRESSION
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S15 ASSIGNMENT STMT
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S24 display
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S24 display S43 (
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S24 display S43 ( S80 string_literal
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S24 display S43 ( S80 string_literal S115 )
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S19 DISPLAY_STMT
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S11 SIMPLE_STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S11 SIMPLE_STMT S29 ;
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 (
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S62 identifier
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S61 FACTOR
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S60 TERM
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S51 ==
[R] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR
[S] S0 $ S2 program S3 identifier S5 begin S7 STMT S7 STMT S13 while S37 EXPRESSION S66 begin S7 STMT S7 STMT S12 if S36 ( S59 SIMPLE_EXPRESSION S93 RELATIONAL_OPERATOR S127 number_literal
Syntax error at token index 64: begin
Parsing Failed
C:\SB\LRparser\gimseongbin$

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