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Course: Compiler Construction Lab

## Report for Lab03

### 1. Result of running the scanner project with example3.kpl

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thangnq194839@MacBook-Pro-cua-Ngo new_rules % ./scanner example3.kpl
1-1:TK_IDENT(PROGRAM)
1-10:TK_IDENT(EXAMPLE3123456)
1-26:SB_SEMICOLON
2-1:KW_VAR
2-6:TK_IDENT(I)
2-7:SB_COLON
2-8:KW_INTEGER
2-15:SB_SEMICOLON
3-6:TK_IDENT(N)
3-7:SB_COLON
3-8:KW_INTEGER
3-15:SB_SEMICOLON
4-6:TK_IDENT(P)
4-7:SB_COLON
4-8:KW_INTEGER
4-15:SB_SEMICOLON
5-6:TK_IDENT(Q)
5-7:SB_COLON
5-8:KW_INTEGER
5-15:SB_SEMICOLON
6-6:TK_IDENT(C)
6-7:SB_COLON
6-8:KW_CHAR
6-12:SB_SEMICOLON
7-1:Invalid symbol!
7-1:TK_NONE
8-1:KW_PROCEDURE
8-12:TK_IDENT(_HAN__OI)
8-20:SB_LPAR
8-21:TK_IDENT(N)
8-22:SB_COLON
8-23:KW_INTEGER
8-30:SB_SEMICOLON
8-33:TK_IDENT(S)
8-34:SB_COLON
8-35:KW_INTEGER
8-42:SB_SEMICOLON
8-45:TK_IDENT(Z)
8-46:SB_COLON
8-47:KW_INTEGER
8-54:SB_RPAR
8-55:SB_SEMICOLON
9-1:KW_BEGIN
10-3:KW_IF
10-7:TK_IDENT(_)
10-9:SB_NEQ
10-12:TK_NUMBER(0)
10-15:KW_THEN
11-5:KW_BEGIN
12-7:KW_CALL
12-13:TK_IDENT(HAN__OI)
12-20:SB_LPAR
12-21:TK_IDENT(N)
12-22:SB_MINUS
12-23:TK_NUMBER(1)
12-24:SB_COMMA
12-25:TK_IDENT(S)
12-26:SB_COMMA
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12-26:SB_COMMA
12-27:TK_NUMBER(6)
12-28:SB_MINUS
12-29:TK_IDENT(S)
12-30:SB_MINUS
12-31:TK_IDENT(Z)
12-32:SB_RPAR
12-33:SB_SEMICOLON
13-7:TK_IDENT(I)
13-8:SB_COLON
13-9:SB_ASSIGN
13-10:TK_IDENT(I)
13-11:SB_PLUS
13-12:TK_NUMBER(1)
13-13:SB_SEMICOLON
14-7:KW_CALL
14-13:TK_IDENT(WRITELN)
14-20:SB_SEMICOLON
15-7:KW_CALL
15-13:TK_IDENT(WRITEI)
15-19:SB_LPAR
15-20:TK_IDENT(I)
15-21:SB_RPAR
15-22:SB_SEMICOLON
16-7:KW_CALL
16-13:TK_IDENT(WRITEI)
16-19:SB_LPAR
16-20:TK_IDENT(N)
16-21:SB_RPAR
16-22:SB_SEMICOLON
17-7:KW_CALL
17-13:TK_IDENT(WRITEI)
17-19:SB_LPAR
17-20:TK_IDENT(S)
17-21:SB_RPAR
17-22:SB_SEMICOLON
18-7:KW_CALL
18-13:TK_IDENT(WRITEI)
18-19:SB_LPAR
18-20:TK_IDENT(Z)
18-21:SB_RPAR
18-22:SB_SEMICOLON
19-7:KW_CALL
19-13:TK_IDENT(HANOI)
19-18:SB_LPAR
19-19:TK_IDENT(N)
19-20:SB_MINUS
19-21:TK_NUMBER(1)
19-22:SB_COMMA
19-23:TK_NUMBER(6)
19-24:SB_MINUS
19-25:TK_IDENT(S)
19-26:SB_MINUS
19-27:TK_IDENT(Z)
19-28:SB_COMMA
19-29:TK_IDENT(Z)
19-30:SB_RPAR
20-5:KW_END
21-1:KW_END
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21-1:KW_END
21-4:SB_SEMICOLON
23-1:KW_BEGIN
24-3:KW_FOR
24-8:TK_IDENT(____)
24-11:SB_COLON
24-12:SB_ASSIGN
24-14:TK_NUMBER(1)
24-17:KW_TO
24-21:TK_NUMBER(4)
24-24:KW_DO
25-5:KW_BEGIN
26-7:KW_FOR
26-12:TK_IDENT(I)
26-13:SB_COLON
26-14:SB_ASSIGN
26-15:TK_NUMBER(1)
26-18:KW_TO
26-22:TK_NUMBER(4)
26-25:KW_DO
27-9:KW_CALL
27-15:TK_IDENT(WRITEC)
27-21:SB_LPAR
27-22:TK_CHAR(' ')
27-26:SB_RPAR
27-27:SB_SEMICOLON
27-29:Invalid const char!
27-29:TK_CHAR('@')
28-7:KW_CALL
28-13:TK_IDENT(READC)
28-18:SB_LPAR
28-19:TK_IDENT(C)
28-20:SB_RPAR
28-21:SB_SEMICOLON
29-7:KW_CALL
29-13:TK_IDENT(WRITEC)
29-19:SB_LPAR
29-20:TK_IDENT(C)
29-21:SB_RPAR
30-5:KW_END
30-8:SB_SEMICOLON
31-3:TK_IDENT(P)
31-4:SB_COLON
31-5:SB_ASSIGN
31-6:TK_NUMBER(1)
31-7:SB_SEMICOLON
32-3:TK_IDENT(Q)
32-4:SB_COLON
32-5:SB_ASSIGN
32-6:TK_NUMBER(2)
32-7:SB_SEMICOLON
33-3:KW_FOR
33-8:TK_IDENT(N)
33-9:SB_COLON
33-10:SB_ASSIGN
33-11:TK_NUMBER(2)
33-14:KW_TO
33-18:TK_NUMBER(4)
33-21:KW_DO

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33-21:KW_DO
34-5:KW_BEGIN
35-7:TK_IDENT(I)
35-8:SB_COLON
35-9:SB_ASSIGN
35-10:TK_NUMBER(0)
35-11:SB_SEMICOLON
36-7:KW_CALL
36-13:TK_IDENT(HANOI)
36-18:SB_LPAR
36-19:TK_IDENT(N)
36-20:SB_COMMA
36-21:TK_IDENT(P)
36-22:SB_COMMA
36-23:TK_IDENT(Q)
36-24:SB_RPAR
36-25:SB_SEMICOLON
37-7:KW_CALL
37-13:TK_IDENT(WRITELN)
38-5:KW_END
39-1:KW_END
39-4:SB_PERIOD
39-26:End of comment expected!
thangnq194839@MacBook-Pro-cua-Ngo new_rules %

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