Example1

Parsing a Program ....

1-1:KW_PROGRAM

1-9:TK_IDENT(Example1)

1-17:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

2-1:KW_BEGIN

3-1:KW_END

Block parsed!

3-5:SB_PERIOD

Program parsed!

Example2

Parsing a Program ....

1-1:KW_PROGRAM

1-9:TK_IDENT(Example2)

1-17:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

3-1:KW_VAR

3-5:TK_IDENT(n)

3-7:SB_COLON

3-9:KW_INTEGER

3-16:SB_SEMICOLON

```
Parsing Block 4 ....

Parsing subroutines ....

Parsing a function ....

5-1:KW_FUNCTION

5-10:TK_IDENT(F)

5-11:SB_LPAR

5-12:TK_IDENT(n)

5-14:SB_COLON

5-16:KW_INTEGER

5-23:SB_RPAR

5-25:SB_COLON

5-27:KW_INTEGER

5-34:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

F6-3:KW_BEGIN

Parsing an if statement ....

7-5:KW_IF

Parsing an expression

7-8:TK_IDENT(n)

Expression parsed

7-10:SB_EQ

Parsing an expression

7-12:TK_NUMBER(0)

Expression parsed

7-14:KW_THEN
```

Parsing an assign statement ....

7-19:TK_IDENT(F)

7-22:SB_ASSIGN

Parsing an expression

7-24:TK_NUMBER(1)

Expression parsed

Assign statement parsed ....

7-26:KW_ELSE

Parsing an assign statement ....

7-31:TK_IDENT(F)

7-34:SB_ASSIGN

Parsing an expression

7-36:TK_IDENT(N)

7-38:SB_TIMES

7-40:TK_IDENT(F)

7-42:SB_LPAR

Parsing an expression

7-43:TK_IDENT(N)

7-45:SB_MINUS

7-47:TK_NUMBER(1)

Expression parsed

7-48:SB_RPAR

Expression parsed

Assign statement parsed ....

If statement parsed ....

7-49:SB_SEMICOLON

8-3:KW_END

Block parsed!

8-6:SB_SEMICOLON

Function parsed ....

Subroutines parsed ....

F10-1:KW_BEGIN

Parsing a for statement ....

11-3:KW_FOR

11-7:TK_IDENT(n)

11-10:SB_ASSIGN

Parsing an expression

11-12:TK_NUMBER(1)

Expression parsed

11-14:KW_TO

Parsing an expression

11-17:TK_NUMBER(7)

Expression parsed

11-19:KW_DO

Parsing a group statement ....

12-5:KW_BEGIN

Parsing a call statement ....

13-7:KW_CALL

13-12:TK_IDENT(WriteLn)

Call statement parsed ....

13-19:SB_SEMICOLON

Parsing a call statement ....

14-7:KW_CALL

14-12:TK_IDENT(WriteI)

14-18:SB_LPAR

Parsing an expression

14-20:TK_IDENT(F)

14-21:SB_LPAR

Parsing an expression

14-22:TK_IDENT(n)

Expression parsed

14-23:SB_RPAR

Expression parsed

14-24:SB_RPAR

Call statement parsed ....

14-25:SB_SEMICOLON

15-5:KW_END

Group statement parsed ....

For statement parsed ....

15-8:SB_SEMICOLON

16-1:KW_END

Block parsed!

16-5:SB_PERIOD

Program parsed!

Example 3

Parsing a Program ....

1-1:KW_PROGRAM

1-10:TK_IDENT(EXAMPLE3)

1-18:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

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

Parsing Block 4 ....

Parsing subroutines ....

Parsing a procedure ....

8-1:KW_PROCEDURE

8-12:TK_IDENT(HANOI)

8-17:SB_LPAR

8-18:TK_IDENT(N)

8-19:SB_COLON

8-20:KW_INTEGER

8-27:SB_SEMICOLON

8-30:TK_IDENT(S)

8-31:SB_COLON

8-32:KW_INTEGER

8-39:SB_SEMICOLON

8-42:TK_IDENT(Z)

8-43:SB_COLON
```

8-44:KW_INTEGER

8-51:SB_RPAR

8-52:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

9-1:KW_BEGIN

Parsing an if statement ....

10-3:KW_IF

Parsing an expression

10-7:TK_IDENT(N)

Expression parsed

10-10:SB_NEQ

Parsing an expression

10-12:TK_NUMBER(0)

Expression parsed

10-15:KW_THEN

Parsing a group statement ....

11-5:KW_BEGIN

Parsing a call statement ....

12-7:KW_CALL

12-13:TK_IDENT(HANOI)

12-18:SB_LPAR

Parsing an expression

12-19:TK_IDENT(N)

12-20:SB_MINUS

12-21:TK_NUMBER(1)

Expression parsed

12-22:SB_COMMA

Parsing an expression

12-23:TK_IDENT(S)

Expression parsed

12-24:SB_COMMA

Parsing an expression

12-25:TK_NUMBER(6)

12-26:SB_MINUS

12-27:TK_IDENT(S)

12-28:SB_MINUS

12-29:TK_IDENT(Z)

Expression parsed

12-30:SB_RPAR

Call statement parsed ....

12-31:SB_SEMICOLON

Parsing an assign statement ....

13-7:TK_IDENT(I)

13-9:SB_ASSIGN

Parsing an expression

13-10:TK_IDENT(I)

13-11:SB_PLUS

13-12:TK_NUMBER(1)

Expression parsed

Assign statement parsed ....

13-13:SB_SEMICOLON

Parsing a call statement ....

14-7:KW_CALL

14-13:TK_IDENT(WRITELN)

Call statement parsed ....

14-20:SB_SEMICOLON

Parsing a call statement ....

15-7:KW_CALL

15-13:TK_IDENT(WRITEI)

15-19:SB_LPAR

Parsing an expression

15-20:TK_IDENT(I)

Expression parsed

15-21:SB_RPAR

Call statement parsed ....

15-22:SB_SEMICOLON

Parsing a call statement ....

16-7:KW_CALL

16-13:TK_IDENT(WRITEI)

16-19:SB_LPAR

Parsing an expression

16-20:TK_IDENT(N)

Expression parsed

16-21:SB_RPAR

Call statement parsed ....

16-22:SB_SEMICOLON

Parsing a call statement ....

17-7:KW_CALL

17-13:TK_IDENT(WRITEI)

17-19:SB_LPAR

Parsing an expression

17-20:TK_IDENT(S)

Expression parsed

17-21:SB_RPAR

Call statement parsed ....

17-22:SB_SEMICOLON

Parsing a call statement ....

18-7:KW_CALL

18-13:TK_IDENT(WRITEI)

18-19:SB_LPAR

Parsing an expression

18-20:TK_IDENT(Z)

Expression parsed

18-21:SB_RPAR

Call statement parsed ....

18-22:SB_SEMICOLON

Parsing a call statement ....

19-7:KW_CALL

19-13:TK_IDENT(HANOI)

19-18:SB_LPAR

Parsing an expression

19-19:TK_IDENT(N)

19-20:SB_MINUS

19-21:TK_NUMBER(1)

Expression parsed

19-22:SB_COMMA

Parsing an expression

19-23:TK_NUMBER(6)

19-24:SB_MINUS

19-25:TK_IDENT(S)

19-26:SB_MINUS

19-27:TK_IDENT(Z)

Expression parsed

19-28:SB_COMMA

Parsing an expression

19-29:TK_IDENT(Z)

Expression parsed

19-30:SB_RPAR

Call statement parsed ....

20-5:KW_END

Group statement parsed ....

If statement parsed ....

21-1:KW_END

Block parsed!

21-4:SB_SEMICOLON

Procedure parsed ....

Subroutines parsed ....

23-1:KW_BEGIN

Parsing a for statement ....

24-3:KW_FOR

24-8:TK_IDENT(N)

24-11:SB_ASSIGN

Parsing an expression

24-13:TK_NUMBER(1)

Expression parsed

24-16:KW_TO

Parsing an expression

24-20:TK_NUMBER(4)

Expression parsed

24-23:KW_DO

Parsing a group statement ....

25-5:KW_BEGIN

Parsing a for statement ....

26-7:KW_FOR

26-12:TK_IDENT(I)

26-14:SB_ASSIGN

Parsing an expression

26-15:TK_NUMBER(1)

Expression parsed

26-18:KW_TO

Parsing an expression

26-22:TK_NUMBER(4)

Expression parsed

26-25:KW_DO

Parsing a call statement ....

27-9:KW_CALL

27-15:TK_IDENT(WRITEC)

27-21:SB_LPAR

Parsing an expression

27-23:TK_CHAR(' ')

Expression parsed

27-25:SB_RPAR

Call statement parsed ....

For statement parsed ....

27-26:SB_SEMICOLON

Parsing an assign statement ....

28-7:TK_IDENT(C)

28-10:SB_ASSIGN

Parsing an expression

28-13:TK_IDENT(READC)

Expression parsed

Assign statement parsed ....

28-18:SB_SEMICOLON

Parsing a call statement ....

29-7:KW_CALL

29-13:TK_IDENT(WRITEC)

29-19:SB_LPAR

Parsing an expression

29-20:TK_IDENT(C)

Expression parsed

29-21:SB_RPAR

Call statement parsed ....

30-5:KW_END

Group statement parsed ....

For statement parsed ....

30-8:SB_SEMICOLON

Parsing an assign statement ....

31-3:TK_IDENT(P)

31-5:SB_ASSIGN

Parsing an expression

31-6:TK_NUMBER(1)

Expression parsed

Assign statement parsed ....

31-7:SB_SEMICOLON

Parsing an assign statement ....

32-3:TK_IDENT(Q)

32-5:SB_ASSIGN

Parsing an expression

32-6:TK_NUMBER(2)

Expression parsed

Assign statement parsed ....

32-7:SB_SEMICOLON

Parsing a for statement ....

33-3:KW_FOR

33-8:TK_IDENT(N)

33-10:SB_ASSIGN

Parsing an expression

33-11:TK_NUMBER(2)

Expression parsed

33-14:KW_TO

Parsing an expression

33-18:TK_NUMBER(4)

Expression parsed

33-21:KW_DO

Parsing a group statement ....

34-5:KW_BEGIN

Parsing an assign statement ....

35-7:TK_IDENT(I)

35-9:SB_ASSIGN

Parsing an expression

35-10:TK_NUMBER(0)

Expression parsed

Assign statement parsed ....

35-11:SB_SEMICOLON

Parsing a call statement ....

36-7:KW_CALL

36-13:TK_IDENT(HANOI)

36-18:SB_LPAR

Parsing an expression

36-19:TK_IDENT(N)

Expression parsed

36-20:SB_COMMA

Parsing an expression

36-21:TK_IDENT(P)

Expression parsed

36-22:SB_COMMA

Parsing an expression

36-23:TK_IDENT(Q)

Expression parsed

36-24:SB_RPAR

Call statement parsed ....

36-25:SB_SEMICOLON

Parsing a call statement ....

37-7:KW_CALL

37-13:TK_IDENT(WRITELN)

Call statement parsed ....

38-5:KW_END

Group statement parsed ....

For statement parsed ....

39-1:KW_END

Block parsed!

39-5:SB_PERIOD

Program parsed!

Example 4

Parsing a Program ....

1-1:KW_PROGRAM

1-10:TK_IDENT(EXAMPLE4)

1-18:SB_SEMICOLON

Parsing a Block ....

2-1:KW_CONST

2-7:TK_IDENT(MAX)

2-11:SB_EQ

2-13:TK_NUMBER(10)

2-15:SB_SEMICOLON

```
Parsing Block 2 ....

3-1:KW_TYPE

3-6:TK_IDENT(T)

3-8:SB_EQ

3-10:KW_INTEGER

3-17:SB_SEMICOLON

Parsing Block 3 ....

4-1:KW_VAR

4-6:TK_IDENT(A)

4-8:SB_COLON

4-10:KW_ARRAY

4-15:SB_LSEL

4-18:TK_NUMBER(10)

4-22:SB_RSEL

4-24:KW_OF

4-27:TK_IDENT(T)

4-28:SB_SEMICOLON

5-6:TK_IDENT(N)

5-8:SB_COLON

5-10:KW_INTEGER

5-17:SB_SEMICOLON

6-6:TK_IDENT(CH)

6-9:SB_COLON

6-11:KW_CHAR

6-15:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Parsing a procedure ....

8-1:KW_PROCEDURE

8-11:TK_IDENT(INPUT)
```

8-16:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

9-1:KW_VAR

9-5:TK_IDENT(I)

9-7:SB_COLON

9-9:KW_INTEGER

9-16:SB_SEMICOLON

10-5:TK_IDENT(TMP)

10-9:SB_COLON

10-11:KW_INTEGER

10-18:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

11-1:KW_BEGIN

Parsing an assign statement ....

12-3:TK_IDENT(N)

12-6:SB_ASSIGN

Parsing an expression

12-8:TK_IDENT(READI)

Expression parsed

Assign statement parsed ....

12-13:SB_SEMICOLON

Parsing a for statement ....

13-3:KW_FOR

13-7:TK_IDENT(I)

13-10:SB_ASSIGN

Parsing an expression

13-12:TK_NUMBER(1)

Expression parsed

13-14:KW_TO

Parsing an expression

13-17:TK_IDENT(N)

Expression parsed

13-19:KW_DO

Parsing an assign statement ....

14-6:TK_IDENT(A)

14-7:SB_LSEL

Parsing an expression

14-9:TK_IDENT(I)

Expression parsed

14-11:SB_RSEL

14-14:SB_ASSIGN

Parsing an expression

14-16:TK_IDENT(READI)

Expression parsed

Assign statement parsed ....

For statement parsed ....

14-21:SB_SEMICOLON

15-1:KW_END

Block parsed!

15-4:SB_SEMICOLON

Procedure parsed ....

Parsing a procedure ....

17-1:KW_PROCEDURE

17-11:TK_IDENT(OUTPUT)

17-17:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

18-1:KW_VAR

18-5:TK_IDENT(I)

18-7:SB_COLON

18-9:KW_INTEGER

18-16:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

19-1:KW_BEGIN

Parsing a for statement ....

20-3:KW_FOR

20-7:TK_IDENT(I)

20-10:SB_ASSIGN

Parsing an expression

20-12:TK_NUMBER(1)

Expression parsed

20-14:KW_TO

Parsing an expression

20-17:TK_IDENT(N)

Expression parsed

20-19:KW_DO

Parsing a group statement ....

21-6:KW_BEGIN

Parsing a call statement ....

22-8:KW_CALL

22-13:TK_IDENT(WRITEI)

22-19:SB_LPAR

Parsing an expression

22-20:TK_IDENT(A)

22-21:SB_LSEL

Parsing an expression

22-23:TK_IDENT(I)

Expression parsed

22-25:SB_RSEL

Expression parsed

22-26:SB_RPAR

Call statement parsed ....

22-27:SB_SEMICOLON

Parsing a call statement ....

23-8:KW_CALL

23-13:TK_IDENT(WRITELN)

Call statement parsed ....

23-20:SB_SEMICOLON

24-6:KW_END

Group statement parsed ....

For statement parsed ....

25-1:KW_END

Block parsed!

25-4:SB_SEMICOLON

Procedure parsed ....

Parsing a function ....

27-1:KW_FUNCTION

27-10:TK_IDENT(SUM)

27-14:SB_COLON

27-16:KW_INTEGER

27-23:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

```
Parsing Block 3 ....

28-1:KW_VAR

28-5:TK_IDENT(I)

28-6:SB_COLON

28-8:KW_INTEGER

28-15:SB_SEMICOLON

29-5:TK_IDENT(S)

29-7:SB_COLON

29-9:KW_INTEGER

29-16:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

30-1:KW_BEGIN

Parsing an assign statement ....

31-5:TK_IDENT(S)

31-8:SB_ASSIGN

Parsing an expression

31-10:TK_NUMBER(0)

Expression parsed

Assign statement parsed ....

31-11:SB_SEMICOLON

Parsing an assign statement ....

32-5:TK_IDENT(I)

32-8:SB_ASSIGN

Parsing an expression

32-10:TK_NUMBER(1)

Expression parsed

Assign statement parsed ....

32-11:SB_SEMICOLON
```

Parsing a while statement ....

33-5:KW_WHILE

Parsing an expression

33-11:TK_IDENT(I)

Expression parsed

33-14:SB_LE

Parsing an expression

33-16:TK_IDENT(N)

Expression parsed

33-18:KW_DO

Parsing a group statement ....

34-6:KW_BEGIN

Parsing an assign statement ....

35-8:TK_IDENT(S)

35-11:SB_ASSIGN

Parsing an expression

35-13:TK_IDENT(S)

35-15:SB_PLUS

35-17:TK_IDENT(A)

35-18:SB_LSEL

Parsing an expression

35-20:TK_IDENT(I)

Expression parsed

35-22:SB_RSEL

Expression parsed

Assign statement parsed ....

35-23:SB_SEMICOLON

Parsing an assign statement ....

36-8:TK_IDENT(I)

36-11:SB_ASSIGN

Parsing an expression

36-13:TK_IDENT(I)

36-15:SB_PLUS

36-17:TK_NUMBER(1)

Expression parsed

Assign statement parsed ....

36-18:SB_SEMICOLON

37-6:KW_END

Group statement parsed ....

While statement parsed ....

38-1:KW_END

Block parsed!

38-4:SB_SEMICOLON

Function parsed ....

Subroutines parsed ....

40-1:KW_BEGIN

Parsing an assign statement ....

41-4:TK_IDENT(CH)

41-8:SB_ASSIGN

Parsing an expression

41-11:TK_CHAR('y')

Expression parsed

Assign statement parsed ....

41-13:SB_SEMICOLON

Parsing a while statement ....

42-4:KW_WHILE

Parsing an expression

42-10:TK_IDENT(CH)

Expression parsed

42-13:SB_EQ

Parsing an expression

42-16:TK_CHAR('y')

Expression parsed

42-19:KW_DO

Parsing a group statement ....

43-6:KW_BEGIN

Parsing a call statement ....

44-8:KW_CALL

44-13:TK_IDENT(INPUT)

Call statement parsed ....

44-18:SB_SEMICOLON

Parsing a call statement ....

45-8:KW_CALL

45-13:TK_IDENT(OUTPUT)

Call statement parsed ....

45-19:SB_SEMICOLON

Parsing a call statement ....

46-8:KW_CALL

46-13:TK_IDENT(WRITEI)

46-19:SB_LPAR

Parsing an expression

46-20:TK_IDENT(SUM)

Expression parsed

46-23:SB_RPAR

Call statement parsed ....

46-24:SB_SEMICOLON

Parsing an assign statement ....

47-8:TK_IDENT(CH)

47-12:SB_ASSIGN

Parsing an expression

47-14:TK_IDENT(READC)

Expression parsed

Assign statement parsed ....

47-19:SB_SEMICOLON

48-6:KW_END

Group statement parsed ....

While statement parsed ....

49-1:KW_END

Block parsed!

49-5:SB_PERIOD

Program parsed!

Example 5

Parsing a Program ....

1-1:KW_PROGRAM

1-9:TK_IDENT(Example5)

1-17:SB_SEMICOLON

Parsing a Block ....

2-1:KW_CONST

2-7:TK_IDENT(c)

2-9:SB_EQ

2-11:TK_NUMBER(1)

2-12:SB_SEMICOLON

Parsing Block 2 ....

3-1:KW_TYPE

3-6:TK_IDENT(t)

3-8:SB_EQ

3-10:KW_CHAR

3-14:SB_SEMICOLON

Parsing Block 3 ....

```
Parsing Block 4 ....

Parsing subroutines ....

Parsing a function ....

4-1:KW_FUNCTION

4-10:TK_IDENT(f)

4-11:SB_LPAR

4-12:TK_IDENT(i)

4-14:SB_COLON

4-16:KW_INTEGER

4-23:SB_RPAR

4-24:SB_COLON

4-25:KW_CHAR

4-29:SB_SEMICOLON

Parsing a Block ....

5-1:KW_CONST

5-7:TK_IDENT(b)

5-9:SB_EQ

5-11:TK_IDENT(c)

5-12:SB_SEMICOLON

Parsing Block 2 ....

6-1:KW_TYPE

6-6:TK_IDENT(a)

6-8:SB_EQ

6-10:KW_ARRAY

6-15:SB_LSEL

6-17:TK_NUMBER(5)

6-19:SB_RSEL

6-21:KW_OF

6-24:TK_IDENT(t)

6-25:SB_SEMICOLON
```

Parsing Block 3 ....

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

7-1:KW_BEGIN

8-1:KW_END

Block parsed!

8-4:SB_SEMICOLON

Function parsed ....

Subroutines parsed ....

9-1:KW_BEGIN

10-1:KW_END

Block parsed!

10-5:SB_PERIOD

Program parsed!

Example 6

Parsing a Program ....

1-1:KW_PROGRAM

1-9:TK_IDENT(Example6)

1-17:SB_SEMICOLON

Parsing a Block ....

2-4:KW_CONST

2-10:TK_IDENT(c1)

2-13:SB_EQ

2-15:TK_NUMBER(10)

2-17:SB_SEMICOLON

3-5:TK_IDENT(c2)

3-8:SB_EQ

3-11:TK_CHAR('a')

```
3-13:SB_SEMICOLON

Parsing Block 2 ....

4-4:KW_TYPE

4-9:TK_IDENT(t1)

4-12:SB_EQ

4-14:KW_ARRAY

4-19:SB_LSEL

4-22:TK_NUMBER(10)

4-26:SB_RSEL

4-28:KW_OF

4-31:KW_INTEGER

4-38:SB_SEMICOLON

Parsing Block 3 ....

5-4:KW_VAR

5-8:TK_IDENT(v1)

5-11:SB_COLON

5-13:KW_INTEGER

5-20:SB_SEMICOLON

6-8:TK_IDENT(v2)

6-11:SB_COLON

6-13:KW_ARRAY

6-18:SB_LSEL

6-21:TK_NUMBER(10)

6-25:SB_RSEL

6-27:KW_OF

6-30:TK_IDENT(t1)

6-32:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Parsing a function ....
```

```
8-4:KW_FUNCTION

8-13:TK_IDENT(F)

8-14:SB_LPAR

8-15:TK_IDENT(p1)

8-18:SB_COLON

8-20:KW_INTEGER

8-27:SB_SEMICOLON

8-29:KW_VAR

8-33:TK_IDENT(p2)

8-36:SB_COLON

8-38:KW_CHAR

8-42:SB_RPAR

8-44:SB_COLON

8-46:KW_INTEGER

8-53:SB_SEMICOLON

Parsing a Block ....

Parsing Block 2 ....

Parsing Block 3 ....

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

9-6:KW_BEGIN

Parsing an assign statement ....

10-8:TK_IDENT(f)

10-11:SB_ASSIGN

Parsing an expression

10-13:TK_IDENT(c1)

Expression parsed

Assign statement parsed ....

10-15:SB_SEMICOLON
```

11-6:KW_END

Block parsed!

11-9:SB_SEMICOLON

Function parsed ....

Parsing a procedure ....

13-4:KW_PROCEDURE

13-14:TK_IDENT(p)

13-15:SB_LPAR

13-16:TK_IDENT(v1)

13-19:SB_COLON

13-21:KW_INTEGER

13-28:SB_RPAR

13-29:SB_SEMICOLON

Parsing a Block ....

14-6:KW_CONST

14-12:TK_IDENT(c1)

14-15:SB_EQ

14-18:TK_CHAR('a')

14-20:SB_SEMICOLON

15-12:TK_IDENT(c3)

15-15:SB_EQ

15-17:TK_NUMBER(10)

15-19:SB_SEMICOLON

Parsing Block 2 ....

16-6:KW_TYPE

16-11:TK_IDENT(t1)

16-14:SB_EQ

16-16:KW_INTEGER

16-23:SB_SEMICOLON

17-11:TK_IDENT(t2)

17-14:SB_EQ

17-16:KW_ARRAY

17-21:SB_LSEL

17-24:TK_NUMBER(10)

17-28:SB_RSEL

17-30:KW_OF

17-33:TK_IDENT(t1)

17-35:SB_SEMICOLON

Parsing Block 3 ....

18-6:KW_VAR

18-10:TK_IDENT(v2)

18-13:SB_COLON

18-15:TK_IDENT(t2)

18-17:SB_SEMICOLON

19-10:TK_IDENT(v3)

19-13:SB_COLON

19-15:KW_CHAR

19-19:SB_SEMICOLON

Parsing Block 4 ....

Parsing subroutines ....

Subroutines parsed ....

20-6:KW_BEGIN

Parsing an assign statement ....

21-2:TK_IDENT(v3)

21-6:SB_ASSIGN

Parsing an expression

21-9:TK_CHAR('a')

Expression parsed

Assign statement parsed ....

21-11:SB_SEMICOLON

Parsing an assign statement ....

22-9:TK_IDENT(v1)

22-13:SB_ASSIGN

Parsing an expression

22-15:TK_IDENT(f)

22-16:SB_LPAR

Parsing an expression

22-17:TK_IDENT(c3)

Expression parsed

22-19:SB_COMMA

Parsing an expression

22-20:TK_IDENT(v3)

Expression parsed

22-22:SB_RPAR

Expression parsed

Assign statement parsed ....

22-23:SB_SEMICOLON

23-6:KW_END

Block parsed!

23-9:SB_SEMICOLON

Procedure parsed ....

Subroutines parsed ....

25-1:KW_BEGIN

Parsing a call statement ....

26-6:KW_CALL

26-11:TK_IDENT(p)

26-12:SB_LPAR

Parsing an expression

26-13:TK_IDENT(c1)

Expression parsed

26-15:SB_RPAR

Call statement parsed ....

26-16:SB_SEMICOLON

27-1:KW_END

Block parsed!

27-5:SB_PERIOD

Program parsed!