Source: DATA SEGMENT

Lexical Analysis :

0 | "DATA" : Identifier : 4 |

1 | "SEGMENT" : SegmentWord : 7 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 |

Source: HEX1   DB 21H

Lexical Analysis :

0 | "HEX1" : Identifier : 4 |

1 | "DB" : DbDir : 2 |

2 | "21H" : HexNumber : 3 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 | 2 1 |

Source: DEC2   DW 12

Lexical Analysis :

0 | "DEC2" : Identifier : 4 |

1 | "DW" : DwDir : 2 |

2 | "12" : DecNumber : 2 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 | 2 1 |

Source: BIN2   DD 0111110B

Lexical Analysis :

0 | "BIN2" : Identifier : 4 |

1 | "DD" : DdDir : 2 |

2 | "0111110B" : BinNumber : 8 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 | 2 1 |

Source: TXT3   DB "STRING"

Lexical Analysis :

0 | "TXT3" : Identifier : 4 |

1 | "DB" : DbDir : 2 |

2 | "STRING" : Text : 6 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 | 2 1 |

Source: DATA ENDS

Lexical Analysis :

0 | "DATA" : Identifier : 4 |

1 | "ENDS" : EndsWord : 4 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 |

Source:

Lexical Analysis :

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

Source: ASSUME CS:CODE, DS:DATA

Lexical Analysis :

0 | "ASSUME" : KeyWord : 6 |

1 | "CS" : SegmentRegister : 2 |

2 | ":" : Symbol : 1 |

3 | "CODE" : Identifier : 4 |

4 | "," : Comma : 1 |

5 | "DS" : SegmentRegister : 2 |

6 | ":" : Symbol : 1 |

7 | "DATA" : Identifier : 4 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 3 | 5 3 |

Source: CODE SEGMENT

Lexical Analysis :

0 | "CODE" : Identifier : 4 |

1 | "SEGMENT" : SegmentWord : 7 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 |

Source:

Lexical Analysis :

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

Source: LABLE1:

Lexical Analysis :

0 | "LABLE1" : Identifier : 6 |

1 | ":" : Symbol : 1 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 |

Source: STC

Lexical Analysis :

0 | "STC" : Instruction : 3 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 |

Source: PUSH EBX

Lexical Analysis :

0 | "PUSH" : Instruction : 4 |

1 | "EBX" : Reg32 : 3 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 |

Source: JMP LABLE2

Lexical Analysis :

0 | "JMP" : JmpWord : 3 |

1 | "LABLE2" : Identifier : 6 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 |

Source: JNC LABLE2

Lexical Analysis :

0 | "JNC" : JmpWord : 3 |

1 | "LABLE2" : Identifier : 6 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 |

Source: MOV DX, SI

Lexical Analysis :

0 | "MOV" : Instruction : 3 |

1 | "DX" : Reg16 : 2 |

2 | "," : Comma : 1 |

3 | "SI" : Reg16 : 2 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 | 3 1 |

Source: MUL DWORD PTR[EDX+ESI+2]

Lexical Analysis :

0 | "MUL" : Instruction : 3 |

1 | "DWORD" : DwordWord : 5 |

2 | "PTR" : PtrWord : 3 |

3 | "[" : Symbol : 1 |

4 | "EDX" : Identifier : 3 |

5 | "+" : Symbol : 1 |

6 | "ESI" : Identifier : 3 |

7 | "+" : Symbol : 1 |

8 | "2" : DecNumber : 1 |

9 | "]" : Symbol : 1 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 9 |

Source: XOR ECX, DS:BIN2

Lexical Analysis :

0 | "XOR" : Instruction : 3 |

1 | "ECX" : Reg32 : 3 |

2 | "," : Comma : 1 |

3 | "DS" : SegmentRegister : 2 |

4 | ":" : Symbol : 1 |

5 | "BIN2" : Identifier : 4 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 | 3 3 |

Source: BTR ES:DEC2[BX+DI+1], AX

Lexical Analysis :

0 | "BTR" : Instruction : 3 |

1 | "ES" : SegmentRegister : 2 |

2 | ":" : Symbol : 1 |

3 | "DEC2" : Identifier : 4 |

4 | "[" : Symbol : 1 |

5 | "BX" : Reg16 : 2 |

6 | "+" : Symbol : 1 |

7 | "DI" : Reg16 : 2 |

8 | "+" : Symbol : 1 |

9 | "1" : DecNumber : 1 |

10 | "]" : Symbol : 1 |

11 | "," : Comma : 1 |

12 | "AX" : Reg16 : 2 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 10 | 12 1 |

Source: SUB EBX, 07

Lexical Analysis :

0 | "SUB" : Instruction : 3 |

1 | "EBX" : Reg32 : 3 |

2 | "," : Comma : 1 |

3 | "07" : DecNumber : 2 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 | 3 1 |

Source: ADC BYTE PTR[BP+SI+8], 05

Lexical Analysis :

0 | "ADC" : Instruction : 3 |

1 | "BYTE" : ByteWord : 4 |

2 | "PTR" : PtrWord : 3 |

3 | "[" : Symbol : 1 |

4 | "BP" : Reg16 : 2 |

5 | "+" : Symbol : 1 |

6 | "SI" : Reg16 : 2 |

7 | "+" : Symbol : 1 |

8 | "8" : DecNumber : 1 |

9 | "]" : Symbol : 1 |

10 | "," : Comma : 1 |

11 | "05" : DecNumber : 2 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 9 | 11 1 |

Source: JNC LABLE1

Lexical Analysis :

0 | "JNC" : JmpWord : 3 |

1 | "LABLE1" : Identifier : 6 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 |

Source: JMP LABLE1

Lexical Analysis :

0 | "JMP" : JmpWord : 3 |

1 | "LABLE1" : Identifier : 6 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 | 1 1 |

Source: LABLE2:

Lexical Analysis :

0 | "LABLE2" : Identifier : 6 |

1 | ":" : Symbol : 1 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 |

Source:

Lexical Analysis :

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

Source: CODE ENDS

Lexical Analysis :

0 | "CODE" : Identifier : 4 |

1 | "ENDS" : EndsWord : 4 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| 0 | 1 1 |

Source: END

Lexical Analysis :

0 | "END" : EndWord : 3 |

Syntax Analysis :

|lb1| mnem | OP1 | OP2 |

| -- | 0 1 |