## Bad test file output

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Running Syntax Analyzer on Part 3B- Bad Testfile 1.txt
______
                          Token Code Mnemonic ST Index
Lexeme
Line 1: unit MyBadProgram; {This file will have several errors, as identified below}
Line 2:
Line 3: {The declarations below are intended to be syntactically correct}
Line 5: LABEL Exit, Enter; {at the end, Exit should be flagged as 'unused label' }
Line 6: VAR i, j : integer;
Line 7: var sum, total: integer;
Line 8:
Line 9: BEGIN
Line 10: sum := 0; total := 50;
Line 11:
Line 12: ENTER:
Line 13: IF sum > total THEN
Line 14: BEGIN
Line 15: i := i + sum * 2
Line 16: END;
Line 17: sum := i + total;
Line 18:
Line 19: (* First error: undeclared variable-- add to symbols, but keep going without worst
case mode *)
Line 20: mysum := 2 * sum;
Warning! mysum is not in symbol table!
Line 21: { Note: mysum should not be flagged again-- is ok now }
Line 22: while mysum > 5 do
Line 23: begin
Line 24: if i > 3 then
Line 25: i := 3;
Line 26: writeln(i)
Line 27: end;
```

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Line 28: { Now things go bad and parser should begin statement-level parsing after this }
Line 29: until x > y do;
*** Part 3B- Bad Testfile 1.txt has a syntax error on line 29 ***
until x > y do;
Expected statement, got until
Skipping ahead to next valid statement...
Warning! x is not in symbol table!
Warning! y is not in symbol table!
Line 30: sum := ;
Found a potentially valid token: sum
*** Part 3B- Bad Testfile 1.txt has a syntax error on line 30 ***
Expected simple expression or string constant, got;
Skipping ahead to next valid statement...
Line 31: if sum := 5 do while i;
Found a potentially valid token: if
*** Part 3B- Bad Testfile 1.txt has a syntax error on line 31 ***
if sum := 5 do while i;
Expected relation operator, got :=
Skipping ahead to next valid statement...
Line 32: { missing semicolon below }
Line 33: writeln("Looks like errors")
Found a potentially valid token: writeln
Line 34: { the rest should be legal... try to resynch ASAP }
Line 35: sum := 50;
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*** Part 3B- Bad Testfile 1.txt has a syntax error on line 35 ***
Expected float, int, or identifier, got :=
Skipping ahead to next valid statement...
Line 36: for i := 1 to 10 do
Found a potentially valid token: for
Line 37: begin
Line 38: j := i + 1;
Line 39: writeln(j);
Line 40: writeln(i)
Line 41: end
Line 42: END.
```

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\*\*\*\*\* [Alert!] Part 3B- Bad Testfile 1.txt has compilation errors to be fixed! \*\*\*\*\*
~~~ Warning! Exit is an unused label! ~~~

| Symbol Table      |                       |                      |                   |
|-------------------|-----------------------|----------------------|-------------------|
| Lexeme            | Kind                  | Type                 | Value             |
| MyBadProgram      | Var                   | STRING               | 0                 |
| Exit              | Label                 | STRING               | 0                 |
| Enter             | Lused                 | STRING               | 0                 |
| i                 | Var                   | STRING               | 0                 |
| j                 | Var                   | STRING               | 0                 |
| sum               | Var                   | STRING               | 0                 |
| total             | Var                   | STRING               | 0                 |
| 0                 | Const                 | INT                  | 0                 |
| 50                | Const                 | INT                  | 50                |
| 2<br>mysum        | Const<br>Var<br>Const | INT<br>STRING<br>INT | 2  <br>0  <br>5   |
| 3                 | Const                 | INT                  | 3                 |
| x                 | Var                   | STRING               | 0                 |
| v                 | Var                   | STRING               | 0                 |
| Looks like errors | Const                 | STRING               | Looks like errors |
| 1                 | Const                 | INT                  | 1                 |
| 10                | Const                 | INT                  | 10                |