

#### 4.2 An Example of the use of the Editor.

Let us assume that you have typed in the following program (using 1:0,10):

```
10 PROGRAM BUBBLESORT
20 CONST
30   Size = 2000;
40 VAR
50   Numbers : ARRAY [1..Size] OF INTEGER;
60   I, Temp : INTEGER;
70 BEGIN
80   FOR I:=1 TO Size DO Number[I] := RANDOM;
90   REPEAT
100    FOR I:=1 TO Size DO
110     Noswaps := TRUE;
120     IF Number[I] > Number[I+1] THEN
130      BEGIN
140       Temp := Number[I];
150       Number[I] := Number[I+1];
160       Number[I+1] := Temp;
170       Noswaps := FALSE
180      END
190    UNTIL Noswaps
200 END.
```

This program has a number of errors which are as follows:

- Line 10 Missing semi-colon.
- Line 30 Not really an error but say we want a size of 100.
- Line 100 Size should be Size-1.
- Line 110 This should be at line 95 instead.
- Line 190 Noswaps should be Noswaps.

Also the variable Numbers has been declared but all references are to Number. Finally the BOOLEAN variable Noswaps has not been declared.