## 1996 Paper 1 Question 9

## Programming in Modula-3

A student unfamiliar with Modula-3 wrote the following procedure:

Explain, to the extent that you can reconstruct them, the programmer's intentions. [5 marks]

Comment on the legality of the code and indicate what the Modula-3 compiler's response would be to it. [5 marks]

How would you correct the procedure –

- (a) following the external data format and internal data structure and algorithm intended by the programmer; [5 marks]
- (b) re-writing it completely from scratch, possibly even having a different external data format (which should be specified). [5 marks]