

## 1997 Paper 1 Question 3

### Programming in Modula-3

Consider the following program:

```
MODULE Squares EXPORTS Main;

IMPORT IO;

PROCEDURE Square (i: INTEGER): INTEGER =
  BEGIN
    RETURN i * i;
  END Square;

BEGIN
  FOR i := 1 TO 10 DO
    IO.Put (Fmt.Int (i) & "^2 = " & Fmt.Int (Square (i)) &
            "\n");
  END;
END Squares.
```

Rewrite the program to use an exception to return the result of the function.

[10 marks]