

1 (a) The following table contains pseudocode examples.

Each example may contain statements that relate to one or more of the following:

- selection
- iteration (repetition)
- input/output.

Complete the table by placing **one or more** ticks (✓) in each row.

| Pseudocode example | Selection | Iteration | Input/Output |
|--|-----------|-----------|--------------|
| FOR Index ← 1 TO 10 Data[Index] ← 0 NEXT Index | | | |
| WRITEFILE ThisFile, "*****" | | | |
| UNTIL Level > 25 | | | |
| IF Mark > 74 THEN READFILE OldFile, Data ENDIF | | | |

[4]

(b) Program variables have data types as follows:

| Variable | Data type |
|----------|-----------|
| MyChar | CHAR |
| MyString | STRING |
| MyInt | INTEGER |

Complete the table by filling in each gap with a function (from the **insert**) so that each expression is valid.

| Expression |
|---------------------------------------|
| MyInt ← (3.1415926) |
| MyChar ← ("Elwood", 3, 1) |
| MyString ← (..... (27.509)) |
| MyInt ← (..... ("ABC123", 3)) |

[4]

(c) The variables given in part (b) are chosen during the design stage of the program development life cycle.

The choices are to be documented to simplify program maintenance.

State a suitable way of documenting the variables **and** give **one** piece of information that should be recorded, in addition to the data type.

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..... [2]