

2 (a) A program contains a global 1D array of type `STRING` containing 65 elements.

An existing text file is used to store the data in the array. Only non-blank elements (those that do **not** contain an empty string) are written to the text file.

An algorithm will:

- write the first element of the array as a new line in the text file
- continue until all elements have been written, each to a new line of the text file.

Stepwise refinement is applied to the algorithm.

Describe up to **six** steps for this algorithm that could be used to produce pseudocode.

Do **not** use pseudocode statements in your answer.

Step 1

.....

Step 2

.....

Step 3

.....

Step 4

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Step 5

.....

Step 6

.....

[6]

(b) Iteration is one programming construct.

Identify **one** other programming construct that will be required when the algorithm from part (a) is converted into pseudocode and explain how it is used.

Construct

.....

Use

.....

[2]