

6 An incomplete algorithm has been written in pseudocode to count the number of zeros stored in an array and total the non-zero values.

```
01 DECLARE A[1:50] : INTEGER
02 DECLARE C : INTEGER
03 DECLARE I : INTEGER
04 DECLARE T : INTEGER
05 I ← 0
06 .....
07 FOR C ← 1 TO 50
08     IF A[C] .....
09     THEN
10         T ← T + 1
11     ELSE
12         I ← I + A[C]
13     ENDIF
14 .....
```

(a) Complete the given pseudocode algorithm. [3]

(b) Write the pseudocode to display, with suitable messages, the number of zeros stored in the array and the total of the non-zero values.

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..... [3]

(c) Meaningful identifiers have **not** been used in the algorithm. Suggest suitable meaningful identifiers for:

The array:

A

The variables:

T

C

I