

3.2 – algorithms / data structures

Q1.

The algorithm below is a sorting algorithm.

- Array indexing starts at 0.
- Line numbers are included but are not part of the algorithm.

```
1  arr ← [4, 1, 6]
2  swapsMade ← false
3  WHILE swapsMade = false
4      swapsMade ← true
5      i ← 0
6      WHILE i < 2
7          IF arr[i+1] < arr[i] THEN
8              t ← arr[i]
9              arr[i] ← arr[i+1]
10             arr[i+1] ← t
11             swapsMade ← false
12         ENDIF
13         i ← i + 1
14     ENDWHILE
15 ENDWHILE
```

- (a) State the data type of the variable `swapsMade` in the algorithm shown above.

(1)

- (b) The identifier `swapsMade` is used in the algorithm shown above.

Explain why this is a better choice than using the identifier `s`.

(2)

- (c) Shade **one** lozenge to show which of the following contains the **false** statement about the algorithm.

A The algorithm uses a named constant.

☐

B The algorithm uses indefinite iteration.

☐

C The algorithm uses nested iteration.

☐

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