ENGLAND GCSE COMPUTER SCIENCE EDEXCEL · UNIT 1 · 5 QUESTIONS

Computational Thinking and Algorithms — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A robot follows a set of steps to move around a room without hitting anything. What is this set of steps called?**

- A A network
- B An algorithm
- C A database
- D A spreadsheet of results

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2 **In an insertion sort, where is each new item placed?**

- A At the start of the list every time, in some situations
- B At the end of the list every time
- C In the correct place among the items already sorted
- D In a random place in the list

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3 **Why can a binary search not be used on an unsorted list?**

- A Halving the list would rule out items that might be the one wanted
- B An unsorted list cannot be stored in memory
- C An unsorted list has too many items to check, which can happen in some cases
- D An unsorted list has no middle item to check

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4 **How many passes does a bubble sort need at most for a list of 5 items?**

- A 40
- B 3
- C 4
- D 5

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5 **A program counts how many numbers in the list 3, 30, 6 are greater than 10. What is the count at the end?**

- A 1
- B 20
- C 0
- D 2

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ANSWER KEY

1. B
2. C
3. A
4. C
5. A

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