

1. Where would you most likely to be asked a series of coding related questions?

1 / 1 point

- ☐ During the take-home assignment.
- ☐ During the screening.
- ☒ Your technical interview.

✓ **Correct**

That's correct! A technical interview will be most concerned with coding related attributes.

2. What is the mathematical process for calculating all possible binary permutations called?

1 / 1 point

- ☐ Numeration
- ☐ Factorial
- ☒ Exponentiation

✓ **Correct**

That's correct. This is the practice of raising a value to the power and it determines how many possible representations a binary number can have.

4. Which of the following equations can be said to be true:

1 / 1 point

- ☒ $\text{space complexity} = \text{input space} + \text{auxiliary space}$
- ☐ $\text{auxiliary space} = \text{space complexity} + \text{input space}$
- ☐ $\text{input space} = \text{space complexity} + \text{auxiliary space}$

✓ **Correct**

That's correct! Space complexity is a combination of the space taken by the input, plus any additional space needed to make the computations.

6. Which of the following statements is true?

1 / 1 point

- ☐ Array based lists can grow without having to copy their values when expanding.
- ☒ LinkedLists can grow without having to copy their values when expanding.
- ☐ An array-based approach is the only way of creating a list.

✓ **Correct**

That's correct. LinkedLists keep a record of nodes through pointers rather than in contiguous spaces in memory.

7. True or false: You should leave all code used and unused when conducting a coding interview.

1 / 1 point

- ☐ True
- ☒ False

✓ **Correct**

That's correct! It is natural that redundant code creeps in during the process of solving the problem. It is ok to delete these unused code segments after you see that they are no longer needed.

8. Which of the following are actual data structures?

1 / 1 point

- ☐ A Trees
- ☒ B Trees
- ☐ C Trees

✓ **Correct**

That's correct! The meaning of the B is not known but some suggestions are balanced, boeing or binary.

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1 / 1 point

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9. What are collection classes?

1 / 1 point

- ☐ Classes that are used by data structures to give them extra functionality like sorting.
- ☐ Collections that take a specific type of class.
- ☒ Specialized classes for data storage and retrieval.

✓ **Correct**

That's correct! They reflect a suite of data structures that act in unique ways and as such can be more suited to a given problem.