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# Data Structures and Algorithms Interview Exam Questions with Answers

What is a data structure? - **Correct Answers:** A way of defining, storing, and retrieving data in a structural and systematic way.

What is an algorithm? - **Correct Answers:** A step by step procedure, which defines a set of instructions to be executed in a certain order to get a desired output.

Why do we do algorithm analysis? - **Correct Answers:** A problem can be solved in more than one way. So, many solution algorithms can be derived for a given problem. We must implement the most suitable algorithm.

What are the criteria of algorithm analysis? - **Correct Answers:** An algorithm is generally analyzed by two factors -- "execution time" and "space required" by the algorithm.

What is asymptotic analysis of an algorithm? - **Correct Answers:** Refers to defining the mathematical bounds/framing of an algorithms run-time performance.

What are the 3 primary asymptotic notations? - **Correct Answers:** "Best case" -  $O(n)$ .

"Worst case" -  $O(n)$  notation.

"Average case" -  $\Theta(n)$  notation.

What is a linear data structure? - **Correct Answers:** A data structure that contains sequentially arranged data items. The next item can be located in the next memory address.

Arrays and lists are examples of linear data structures

What are common operations that can be performed on data structures? - **Correct Answers:** "Insertion" - adding a data item.

# Data Structures Interview Questions Answers

**S Marginson**



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