Areas of evaluation

**Leetcode**

* Array
* Hash table
* Sorting
* String
* Database (SQL)
* Simulation (problem solving)
* Regex

ChatGPT’s input regarding additional dimensions

1. **Linked List**: Problems involving single or doubly linked lists are common in many coding interviews. They test your understanding of pointers and dynamic allocation.
2. **Trees**: This includes binary trees, binary search trees, heaps, and n-ary trees. Trees are fundamental data structures in computer science and are often used in problems requiring hierarchical data or efficient search, insert, and delete operations.
3. **Graphs**: These problems may involve concepts like depth-first search (DFS), breadth-first search (BFS), topological sorting, shortest paths, and cycle detection.
4. **Dynamic Programming**: This is a method for solving complex problems by breaking them down into simpler subproblems. It's a common topic in competitive programming and coding interviews.
5. **Recursion and Backtracking**: Problems that require searching through all possible combinations or permutations to find an optimal solution often use recursion and backtracking.
6. **Bit Manipulation**: Problems that involve bitwise operations can be tricky but are frequently asked in coding interviews, especially at companies like Google and Facebook.
7. **Stacks and Queues**: These data structures are often used in problems involving sequencing, scheduling, or parsing.
8. **Mathematical**: Problems that involve concepts from number theory, algebra, geometry, probability, etc.
9. **Concurrency and Multithreading**: Though not as common in platforms like LeetCode, these problems are crucial for real-world software development, especially for systems programming, backend development, and real-time systems.
10. **Design Problems**: These problems might involve designing a data structure with specific properties, or designing an algorithm to solve a particular problem. They test your ability to architect solutions and consider trade-offs.
11. **Object-Oriented Programming**: Problems that involve designing classes and objects, using inheritance and polymorphism, etc.

Remember, the goal of these problems isn't just to test your knowledge of these specific areas, but also your problem-solving skills, your ability to write clean and efficient code, and your understanding of the trade-offs involved in different approaches.

**W3schools**

* Pandas
* Numpy
* Regex
* ..

**Other**

* Data Visualization (packages) – which ones work the best ? What is default one?)