Alternate Java Questions

Topic: arrays

- How can you find the missing number in a sequence using arrays?

- What is the best way to rotate an array by k elements?

Topic: linked_lists

- How do you reverse a singly linked list iteratively?

- Explain the process of removing duplicates from a sorted linked list.

Topic: hash_maps

- How do you implement a frequency counter using HashMap in Java?

- What happens when you override hashCode and not equals in Java?

Topic: binary_search

- How do you find the first occurrence of a number using binary search?

- Can binary search be applied to rotated sorted arrays?

Topic: dynamic_programming

- Explain the 0/1 Knapsack problem using dynamic programming.

- What is the longest common subsequence and how is it solved using DP?

Topic: file_handling

- How can you count the number of words in a file using Java?

- What are the differences between FileReader and BufferedReader?