1. **Analyze the time complexity of each operation (add, search, traverse, delete).**

**Time Complexity Analysis:**

* **Add Operation:** O(1) if adding to the end of the array and space is available
* **Search Operation:** O(n) for linear search.
* **Traverse Operation:** O(n).
* **Delete Operation:** O(n) since elements need to be shifted.

1. **Discuss the limitations of arrays and when to use them.**

**Limitations of Arrays:**

* **Fixed Size:** Arrays have a fixed size, making it difficult to handle a dynamic number of employees.
* **Insertion/Deletion Overhead:** Inserting or deleting elements requires shifting, which is inefficient for large arrays.

**When to Use Arrays:**

* When the number of elements is known and fixed.
* When fast access to elements by index is required.
* When memory efficiency and simplicity are priorities.