**Analysis**

**🔹 Time Complexity:**

| **Operation** | **Complexity** | **Explanation** |
| --- | --- | --- |
| Add | O(1) | Insert at next available index |
| Search | O(n) | Linear scan to find matching ID |
| Traverse | O(n) | Print each employee |
| Delete | O(n) | Find and shift elements after deletion |

**Limitations of Arrays:**

* **Fixed size** (hard-coded limit like MAX = 100)
* **Inefficient delete** (need to shift elements)
* **No dynamic resizing** (unlike ArrayList)

**When to Use Arrays:**

* When number of employees is small and **fixed**
* When **fast access by index** is important
* When **memory usage** must be predictable