



Operations on 📌 DATA STRUCTURE

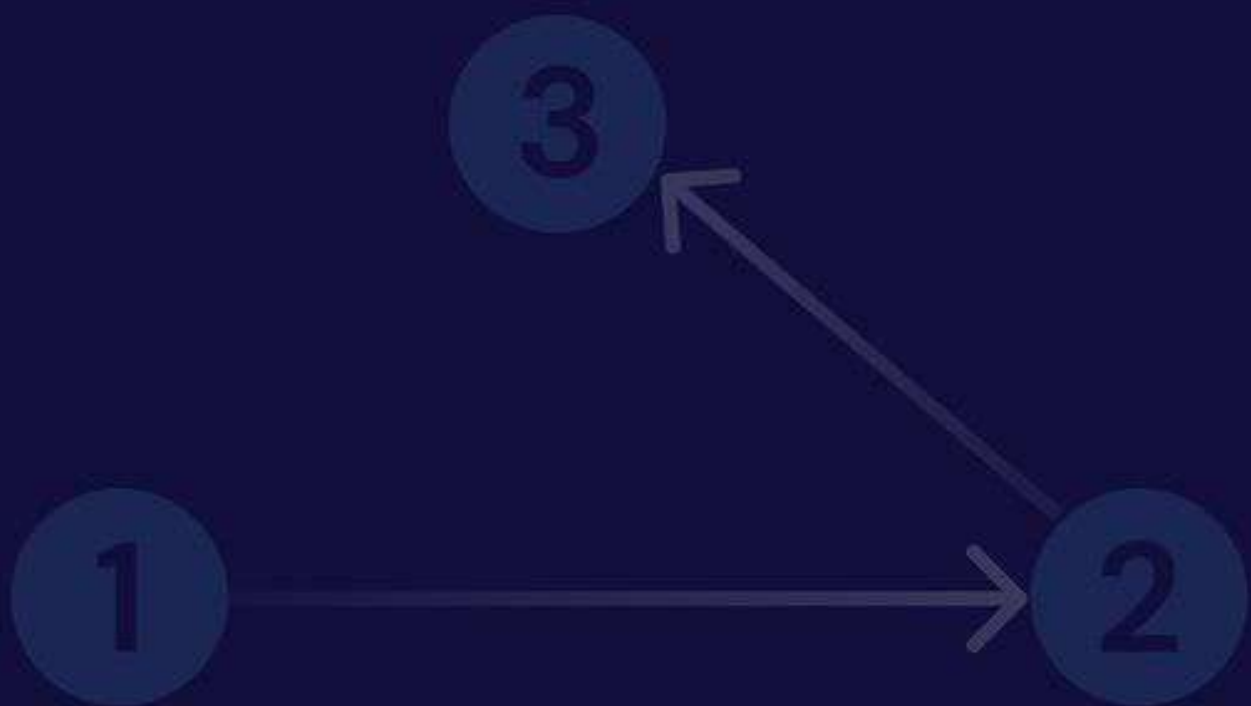


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- **Traversin**

Traversing the data structure implies **visiting each element** of the data structure to perform a specific operation such as searching or sorting.





- **Searching**

Searching refers to the process of **locating** an **element** within a data structure. **Linear** Search and **Binary** Search are the two **algorithms** used for searching.





- **Insertion**

The process of adding elements to the data structure at any location is known as insertion.



Added!



Added!





- **Merging**

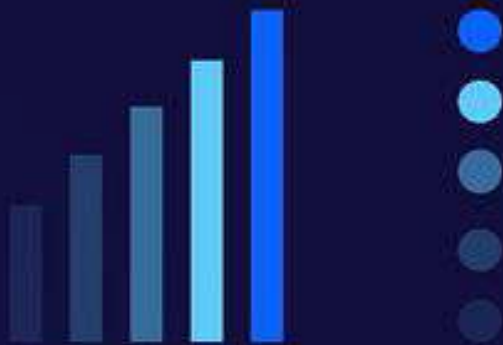
Merging occurs when two lists, List A and List B, of size M and N, respectively, containing comparable types of elements are combined to form a third list, List C of size $(M+N)$.





- **Sorting**

Sorting is the process of **organizing data** structures in a specified order. Sorting can be done using a variety of algorithms, such as **insertion** sort, **selection** sort, **bubble** sort, and so on.





- **Deletion**

Deletion is the process of **removing** an **element** from a data structure.

These elements can be removed from data structure at any random location.



✗ Removed!

✗ Removed!

