A linear collection of data elements where the linear node is given by means of a reference is called

- primitive list
- ✔ linked list
- Array
- node list

_____is a header list where the last node points back to the header node.

- ✔ Circular Header List
- Grounder Header List
- Singly header List
- Doubly header List

_____ operation is not performed in linear list.
1. Insertion 2. Deletion 3. Retrieval 4. Traversal

- Only 1 and 2
- Only 3
- Only 1, 2 and 3
- ✔ None of these options

Choose the correct data structure whose size is fixed and insertion and deletions are bit difficult because we have to shift the elements upward or downward to avoid the wastage of memory.

- Linked List
- ✔ Array
- Graph
- Tree

which of the following is a logical description of how we view the data and the operations that are allowed without regard to how they will be implemented?

- ○ Advanced Data types
- ○ Array Data Types
- ○ None of these options
- ✔ ◉ Abstract Data Types

Choose the Linear Data types:

- ☐ Tree
- ✔ ☑ Stack
- ✔ ☑ Queue
- ☐ Graph
- ✔ ☑ Arrays

Which of the following form of access is used to add and remove nodes from a queue?

- ✔ ◉ FIFO, First In First Out
- ○ LIFO, Last In First Out
- ○ FILO, First in Last Out
- ○ None of these options

Match the following items with their descriptions:

1. dequeue()	1. Deletion in queue
2. push()	2. Insertion in stack
3. enque()	3. Insertion in queue
4. peek()	4. Access topmost element on stack
5. pop()	5. Deletion in stack

Which Data Structure Should be used for implementing LRU cache?

- ( ) Tree
- ( ) Graph
- (✓) Queue
- ( ) stack

Choose the correct real-time application which uses Queue for its implementation?

- ( ) Keeping track of local variables at run time
- ( ) Syntax analyzer for a compiler
- ( ) A parentheses balancing program
- (✓) Process Scheduling