# DS and Algorithm Master Reference

[DS and Algo Master Reference 1](#_Toc3436)

[References 1](#_Toc1619)

[General Data structure 1](#_Toc7119)

[Linked list 1](#_Toc22261)

[Arrays 2](#_Toc32286)

[Linear Data Structure 2](#_Toc23680)

[Stack 2](#_Toc27827)

[Queue 2](#_Toc1343)

[Priority Queues 2](#_Toc16029)

[Linked List 2](#_Toc11825)

[Non Linear Data structures 2](#_Toc24161)

#### References

Coursera: <https://www.coursera.org/learn/algorithms-part1?action=enroll>

Github: https://github.com/BalajiBaskaran24/DotnetDev/tree/main/DSAndAlgoSample/DSAndAlgoReference

## Commonly used words

Trivial - Less significant or little value

## General Data structure

### Linked list

Nodes linked together

Private class Node

{

object item;

Node Next;

}

### Arrays

## Linear Data Structure

### Stack

LIFO. Operations: Insert(Push), Remove(pop), iterate, test if empty, size. Implemented using array or linked list. Max size should be given during initialization. In case of array.

### Queue

FIFO. Operations: Enqueue, Dequeue

### Priority Queues

While adding the element to collection sorting will be carried out based on comparer provided by user

### Linked List

## Non Linear Data structures

### Hashing

## Algorithms