Flowcharts & Pseudocode

Learn any programming language like C++, java, python!

Learn basic concept like input, output, variable, Data-type

if-else, Switch-case, loop, Method, Basic array (1D,2D), String

**Data Structures and Algorithms**

**Array**

* Introduction
* Memory management
* Input and Output
* ArrayList Introduction

Basic array question:-

https://takeuforward.org/strivers-a2z-dsa-course/strivers-a2z-dsa-course-sheet-2/

Kadane`s Algorithm

Dutch National Flag Algorithm

#### **Multidimensional Arrays**

The most important problems from this topic are[**Traversal Based Problems**](https://www.codingninjas.com/studio/guided-paths/data-structures-algorithms/content/118821/offering/1381898?leftPanelTab=0)and[**Rotation based problems**](https://www.codingninjas.com/studio/guided-paths/data-structures-algorithms/content/118821/offering/1381903?leftPanelTab=0)**.**

**Searching Algorithm**

* Linear Search
* Binary Search
* Modified Binary Search
* Two Pointer
* Subarray Questions

**Sorting**

* + Insertion Sort
  + Selection Sort
  + Bubble Sort
  + Count Sort
  + Radix Sort

**Strings**

* + Introduction
  + How Strings work
  + Comparison of methods
  + Operations in Strings
  + StringBuilder in java

**Basic method for DSA**