# How To Master Arrays And Strings

- **Basics Of Arrays**
  - How to iterate on elements of array?
  - Sum of all elements of arrays
  - Reverse An Array
  - Link To Practice - https://www.codingninjas.com/codestudio/guided-paths/basics-of-c/content/118787/offering/1381276

- **Basics Of Two Dimensional Arrays**
  - How are they stored?
  - Traversal based Problems
    - Wave Form - https://www.codingninjas.com/codestudio/problems/return-in-row-wave-form_893285
    - Spiral Form - https://www.codingninjas.com/codestudio/problems/spiral-matrix_840698

- **Basics Of Strings**
  - How strings are stored?
  - Basic Questions
    - Reverse String
    - Check String Is Palindrome Or Not?
    - Remove Vowels
    - Link - https://www.codingninjas.com/codestudio/guided-paths/basics-of-c/content/118818/offering/1381763

- **Sorting Algorithms**
  - Selection Sort
  - Bubble Sort
  - Insertion Sort
  - Link - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118822/offering/1382158

- **Time And Space Complexity**
- **Algorithms Learn**
  - **Binary Search**
    - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118621/offering/1377974
  - **Dutch National Flag Algorithm**
    - Sort 0 1
    - Sort 0 1 2

- https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118820/offering/1381861
- **Two Pointers Technique**
  - Pair sum
  - Triplet Sum
  - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118509/offering/1376553
- **Sliding Window Algorithm**
  - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118509/offering/1376573
- **Kadane's Algorithm**
  - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118820/offering/1381861

- **Applications On Arrays**
  - Overalapping Intervals
  - Second Largest Element In Array
  - Minimum Number Of Platforms
  - https://www.codingninjas.com/codestudio/guided-paths/data-structures-algorithms/content/118820/offering/1381883

- **Applications On  Multi Dimensional Arrays**
  - Search In Row Wise And Column Wise Sorted Matrix
    - Binary Search
    - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111356/offering/1280160
  - Inplace Rotate Matrix By 90 degree
    - Adhoc Problem
    - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111356/offering/1280165
  - Matrix Median
    - Binary Search
    - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111356/offering/1280164
  - Other Questions Practice Link
    - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111356/offering/1281375

- **Applications On Strings**
  - Longest Substring Without Repeating Characters
    - Sliding Window

- https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111306/offering/1280180
- Anagram Difference
  - Hashmap
  - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111306/offering/1280171
- Shortest substring with all characters
  - Two Pointers
  - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111306/offering/1280173
- Minimum operations to make strings equal
  - Hashmap
  - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111306/offering/1280177
- Other Questions Practice Link
  - https://www.codingninjas.com/codestudio/guided-paths/interview-guide-for-product-based-companies/content/111306/offering/1376442