Short-term Hands-on Supplementary Course on C Programming

SESSION 4: Arrays

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Time: 6:30 - 8:00 PM
Date: 25 May 2022
Location: Online

Agenda

1. Administrative Instructions
2. Definition of Array
3. 1D Arrays: Live Code Demo with Searching
    a. Declaration
    b. Initialization
    c. Accessing Elements
    d. Traversal using Loops
    e. I/O for Arrays
4. Multi-dimensional Arrays
5. 2D Arrays: Live Code Demo
    a. Declaration
    b. Initialization
    c. Accessing Elements
    d. Traversal using Loops
    e. I/O for Arrays
6. Tutorial
    a. Common Operations on 1D Arrays
    b. 2D Matrix Arithmetic Operations
7. Next Session

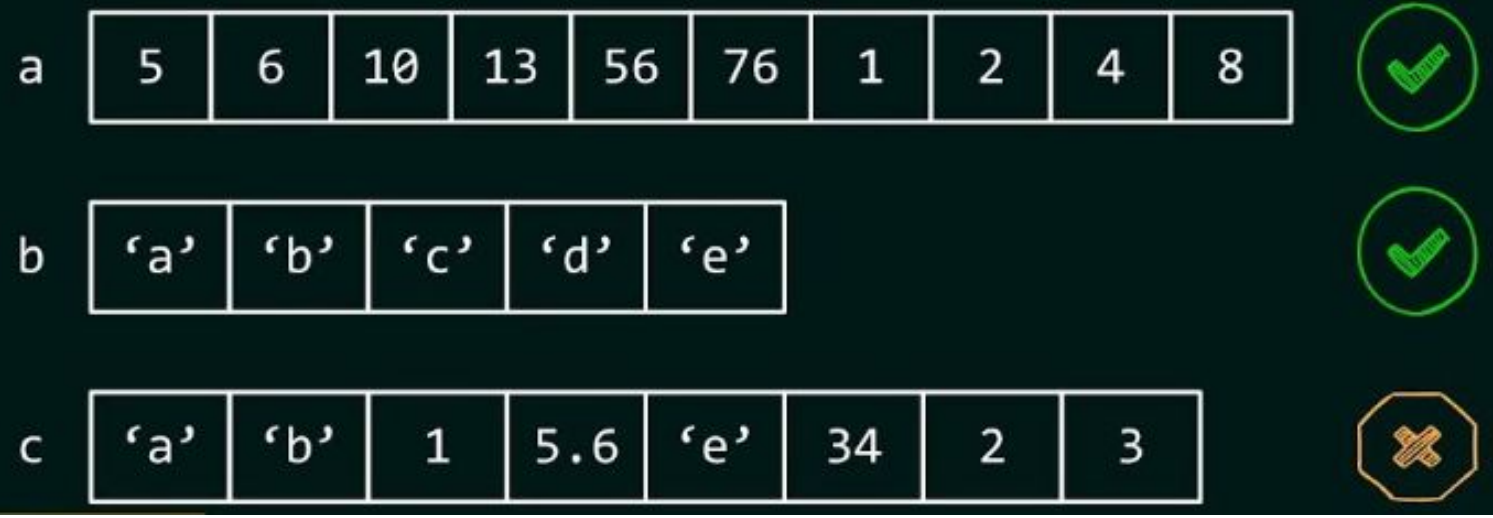
Administrative Instructions

- Please fill out the feedback form - will be shared in the chat
- Join us on Microsoft Teams,
  Team Code: **rzlaicv**

GITHUB REPOSITORY! ⭐🌟

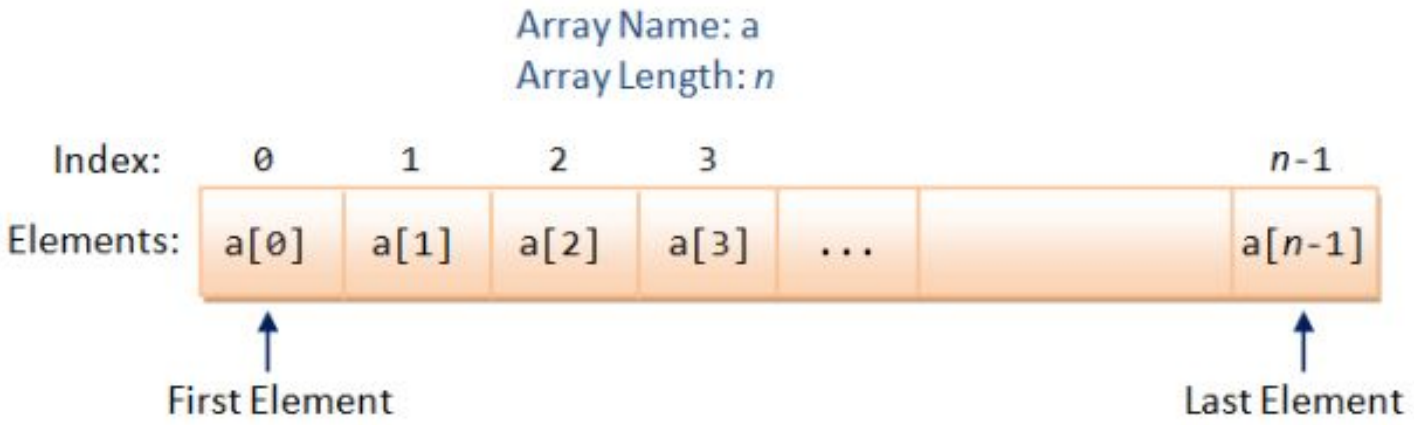
Definition of Array

An Array is a data structure containing a number of data values (all of which are of same type)

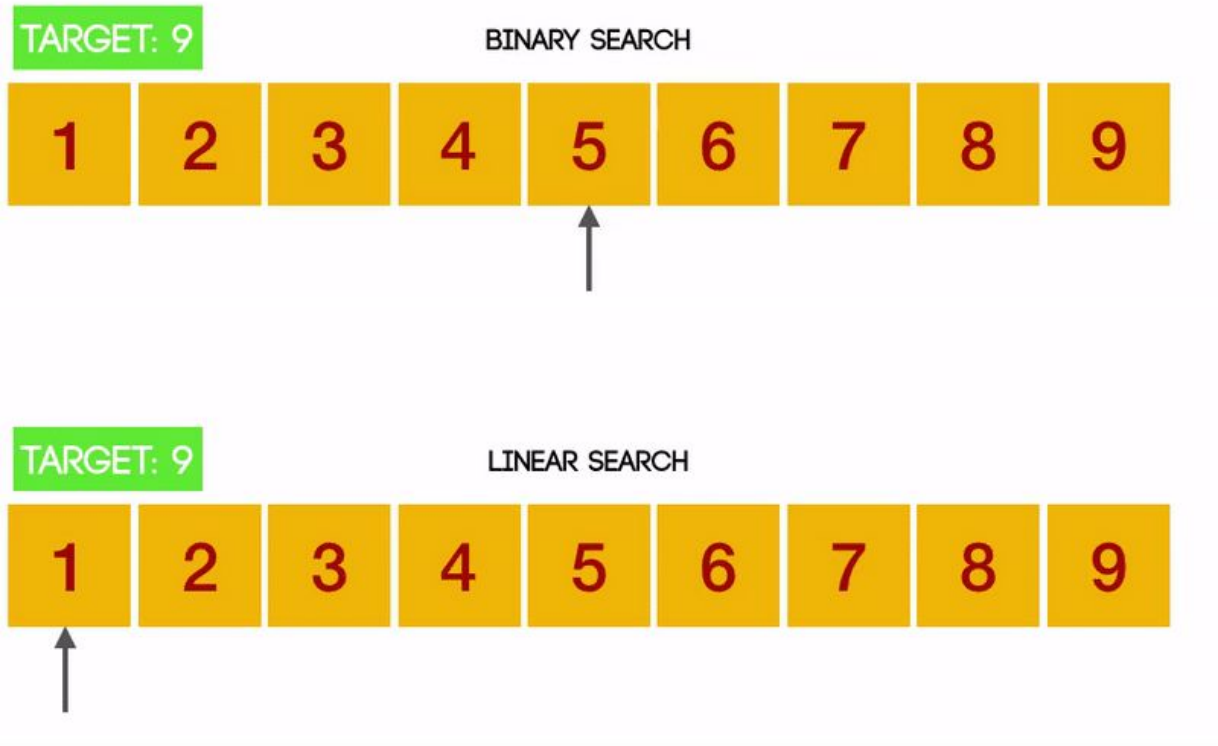


1D Arrays: Live Code Demo

- Declaration
- Initialization
- Accessing Elements
- Traversal using Loops
- I/O for Arrays



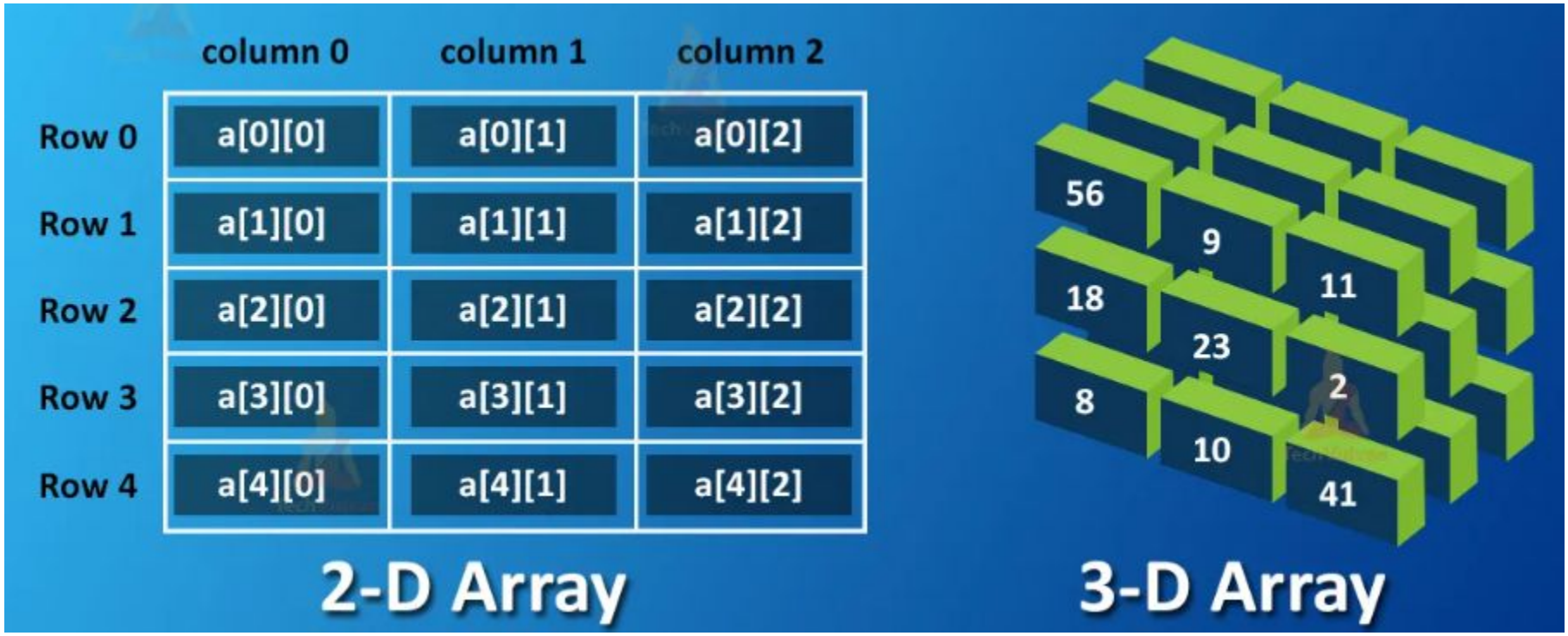
TUTORIAL



Searching for an element in a 1D array!!!

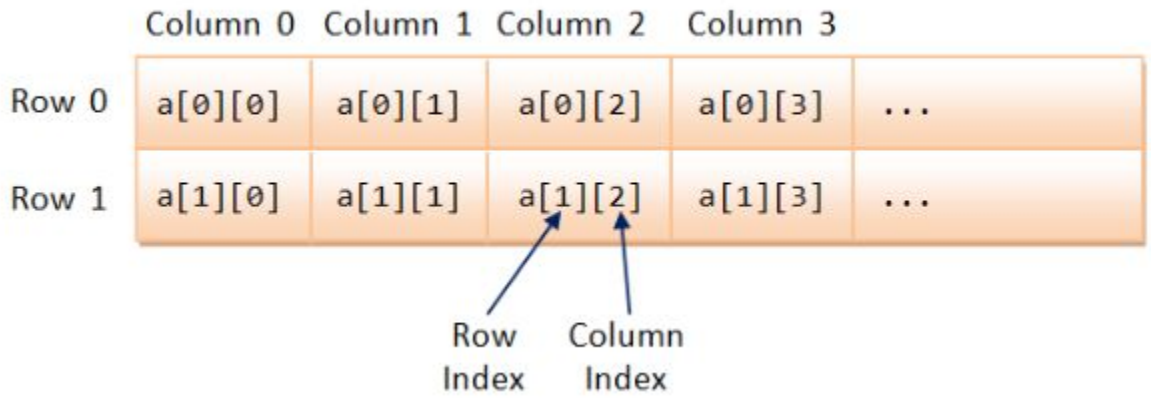
KARTHIK!!!!!!!

Multi-dimensional Arrays

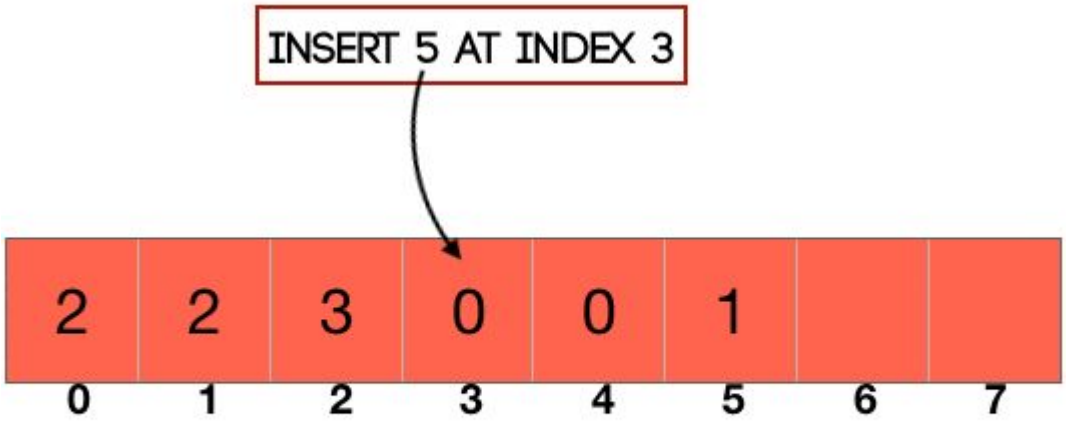


2D Arrays: Live Code Demo

- Declaration
- Initialization
- Accessing Elements
- Traversal using Loops
- I/O for Arrays

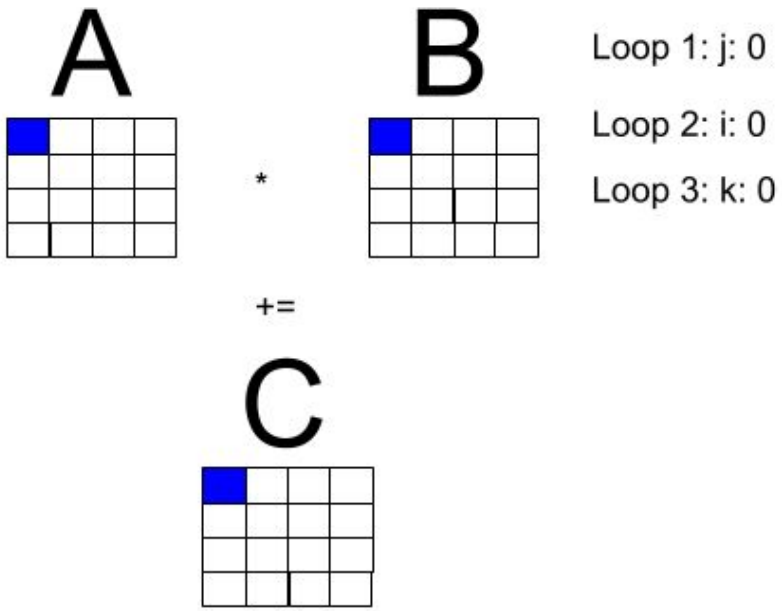


TUTORIAL



1D Common Operations!!!

Tutorial



2D Arithmetic Operations!!!

Next Session

SORTING!!!

INTERVIEWER : Write a program to sort the array

ME : **arr = [1, 3, 4, 2]**
arr.sort()

Any Questions