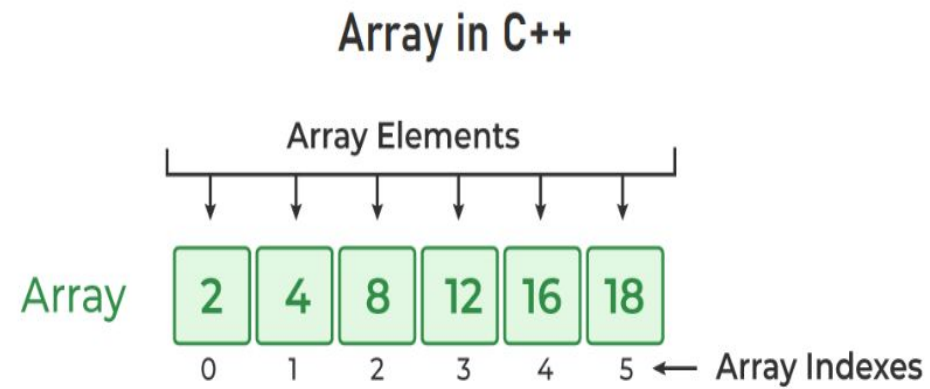


# Arrays

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- ▶ Data Structure that is used to store multiple values of similar type in a contiguous memory location, an array is also called as homogenous collection of data.



# Task-1

- ▶ Create a program that asks the user to enter **5 integers**, stores them in a 1D array, and then prints all the values.

# Task-2

- ▶ Ask the user to enter **N (size)** and then input N integers. Find and print the **largest number** in the array.

# Task-3

- ▶ Take an array of 8 integers and count how many of them are **positive**, **negative**, and **zero**. Display the count for each category.

# Task-4

- ▶ Input 6 integers in an array and print them in **reverse order** using a loop (without using built-in reverse functions).

# Task-5

- ▶ Write a C++ program to input a 3×3 matrix from the user and print it in matrix form.

# Task-6

- ▶ Write a C++ program to calculate the sum of all elements of a 3×3 matrix.



# Task-7

- ▶ Write a program to input a 3×3 matrix and print the sum of each row separately.

# Task-8

- ▶ Write a program to input a 3×3 matrix and print the sum of each column.

# Task-9

- ▶ Write a C++ program to find the maximum element in a 3×3 matrix.

# Task-10

- ▶ Write a program to input two  $3 \times 3$  matrices and print their sum.

# Task-11

- ▶ Write a program to find and print the transpose of a  $3 \times 3$  matrix.