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ARRAY ASSIGNMENT



WHATISANARRAY?

An array is a collection of items of the same data type stored at contiguous memory locations.

Key Features:

- Fixed size
- Zero-based indexing
- Efficient access

Declaring an Array

Syntax:

DataType ArrayName[Size];

Example:

int numbers[5];

Declares an array of 5 integers.

INITIALIZING ANARAY

Declaration:

int numbers[5] = $\{1, 2, 3, 4, 5\}$;

Partial initialization:

int numbers[5] = {1, 2};
// Remaining elements are
initialized to 0.

ACCESSING ARRAY ELEMENTS

Syntax

ArrayName[Index];

Example

cout << numbers[0]; // Access
the first element</pre>

MULTI-DIMENSIONAL ARRAYS

Arrays with more than one dimension.

Syntax

DataType ArrayName[Rows][Columns];

Example

int matrix[3][3];

ADVANTAGES OF ARRAYS

- Easy to use and manage.
- Fast data retrieval using indexing.
- Suitable for fixed-size collections.

THANKYOU