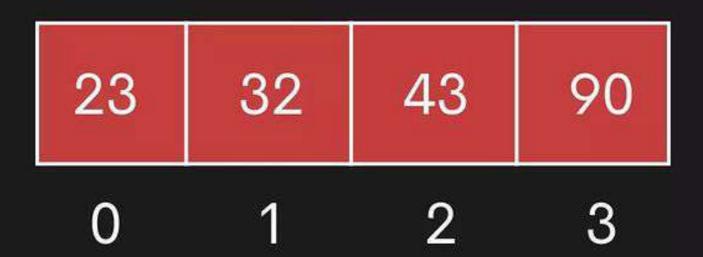


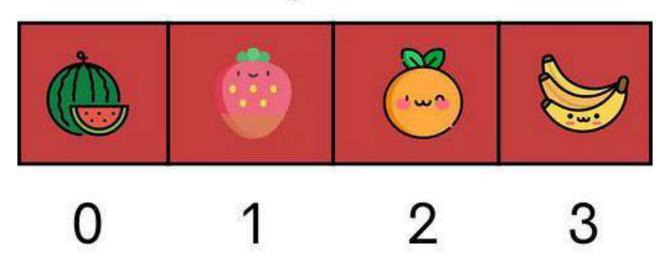
Array Data Structure





An Array Is a Collection Of Items Stored In a Continuous Memory Location, Typically of a same type

arrayOfFruits



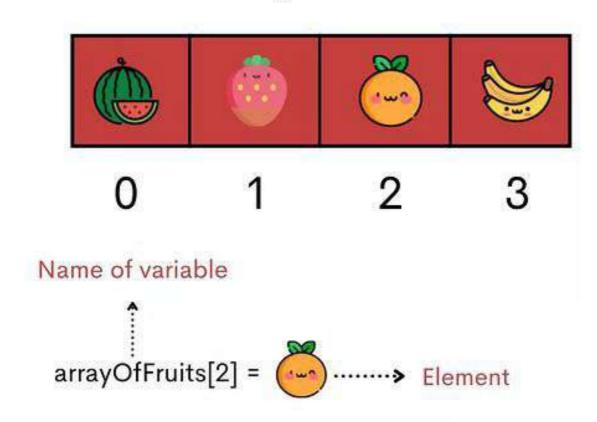


The Idea Is To Store Multiple Items Of Same Type Together

0 1 2 3 arrayOfFruits Index

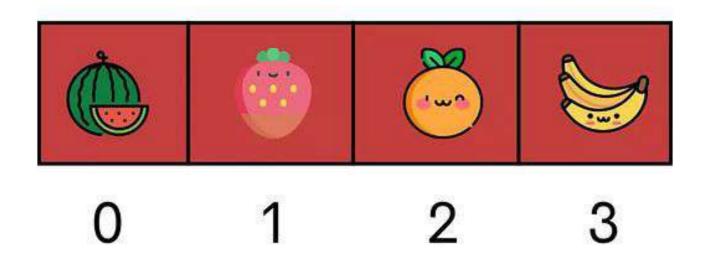


Array Of Fruits



An Array Contains Data Elements Of The Same Type Stored One After Another In Memory And Each Element Is Assigned A Index Value And Array Index Is Always Starts With 0 Index Can Be Used To Access Single Element From Array



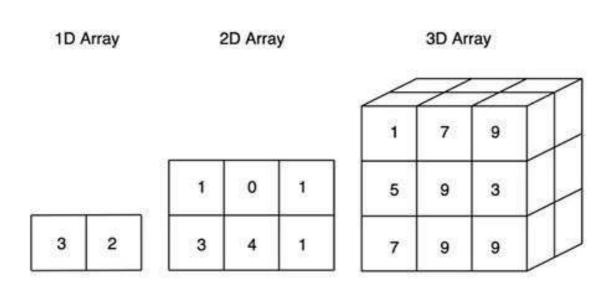


arrayOfFruits[3] =

Let's Understand It By An Example Suppose Here We Have A Array Of Fruits It's Of Same Type Of Fruits Now Suppose You Want The Banana Then You Can Use Index 3 To Get It



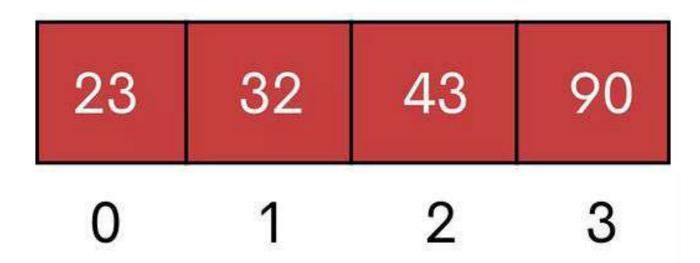
Types Of Array



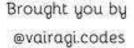


ONE Dimensional ARRAY

A One-Dimensional Array Is a Type Of Linear Array in which the elements are stored linearly



You can access each element individually by specifying the index value







MULTI Dimensional ARRAY

A Multi-Dimensional Array includes 2D And 3D Arrays. The 2D array is organized as matrices

	0	1	2	3
0	0	1	2	3
1	4	5	6	7
2	8	9	10	11



OPERATIONS YOU CAN PERFORM ON ARRAY

INSERSTION

DELETION

SEARCH

SORTING

