



50 Understand the basic concept of Array in C++ .mp4 - VLC media player

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How to Refer Array Elements

We can reference array elements by using the array's subscript. The first element has a subscript of 0. The last element in an array of length n has a subscript of $n-1$.

When we write a program, we refer to an *individual* array element using *indexing*. To index a subscript, use the array name and the subscript in a pair of square brackets:

`a[12];`

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Arrays

- 1-dimensional array.

Currency	U.S. \$	Aust \$	U.K. £	Can \$	DMark	FFranc	Yen	SFranc	Euro
Last Trade	N/A	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	12:39AM
U.S. \$	1	0.6493	1.663	0.675	0.5513	0.1644	0.009316	0.6784	1.082

- 3-dimensional array (3rd dimension is the day).

Currency	U.S. \$	Aust \$	U.K. £	Can \$	DMark	FFranc	Yen	SFranc	Euro
Last Trade	N/A	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	Oct 14	12:39AM
U.S. \$	1	0.6493	1.663	0.675	0.5513	0.1644	0.009316	0.6784	1.082
Aust \$	0.6493	1	1.54	1	0.8491	0.2532	0.01435	1.045	1.666
U.K. £	1.663	1.54	1	2.562	1.04	0.8491	0.2532	0.01435	1.045
Can \$	0.675	1.663	2.562	1	0.4058	0.3314	0.09883	0.005601	0.4079
DMark	0.5513	0.8491	1.04	0.4058	1	0.2982	0.0169	1.231	1.963
FFranc	0.1644	0.2532	0.8491	0.3314	0.2982	1	0.05667	4.127	6.582
Yen	0.009316	0.01435	0.09883	0.005601	0.0169	0.05667	1	72.82	116.1
SFranc	0.6784	1.045	1.045	0.4079	1.231	4.127	72.82	1	1.595
Euro	1.082	1.666	1.666	0.4079	1.963	6.582	116.1	1.595	1

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Why Array?

- Suppose we need to store the marks of 50 students in a class and calculate the average marks. Declaring 50 separate variables will do the job but no programmer would like to do so. And here comes the **array** in action.

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