

# C++ Array Operations

## C++ Array Operations

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In this tutorial, we shall go through some of the most used Array Operations in your C++ application development.

### C++ Initialize Array

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To initialize a C++ Array, use square brackets after variable name to denote that it is an array, and assign the variable with list of elements.

#### C++ Program

```
#include <iostream>
using namespace std;

int main() {
    int arr1[] = {7, 3, 8, 7, 2};

    //print arrays
    for (int i=0; i < sizeof(arr1)/sizeof(*arr1); i++) {
        cout << arr1[i] << " ";
    }
}
```

#### Output

```
7 3 8 7 2
```

### C++ Array Length

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Complete Tutorial – [C++ Array Length](#)

To get length of C++ Array, you may use any looping statement, iterate over each of the element and increment the counter for length during each iteration.

#### C++ Program

```
#include <iostream>
using namespace std;

int main() {
    int arr[] = {3, 5, 8, 13, 21, 34};
    int len = 0;

    for (int n: arr)
        len++;

    cout << len;
}
```

### Output

6

## C++ Print Array

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To print all Array Elements, you can use any of the C++ loop statements.

### C++ Program

```
#include <iostream>
using namespace std;

int main() {
    int arr[7] = {25, 63, 74, 69, 81, 65, 68};

    for (int element: arr) {
        cout << element << " ";
    }
}
```

### Output

25 63 74 69 81 65 68

## C++ Loop through Array Elements

Complete Tutorial – [C++ Loop through Array Elements](#)

### C++ Program

```
#include <iostream>
using namespace std;

int main() {
    int arr[7] = {25, 63, 74, 69, 81, 65, 68};

    int i=0;
    while (i < 7) {
        cout << arr[i] << " ";
        i++;
    }
}
```

### Output

```
25 63 74 69 81 65 68
```

### Conclusion

In this [C++ Tutorial](#), we have learned some of the Array Operations, with examples and detailed tutorials.

#### C++ Tutorials

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- ◆ [C++ Switch](#)
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- ◆ [C++ While Loop](#)
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⇒ **C++ Array Operations**

◆ C++ Vector Operations

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