C++ Array Cheatsheet

# 1. Array Declaration

array<type, size> name;  
Ex: array<int, 5> Test1;

# 2. Array Initialization

array<type, size> name = {value1, value2, …}  
Ex: array<int, 5> testArray2 = {10, 20, 30};

# 3. Choose an Element at Position i

name.at(i);  
Ex: testArray2.at(2) // accesses element at position 2;

# 4. First Element (front() function)

name.front();  
Ex: testArray2.front() // will return 10;

# 5. Last Element (back() function)

name.back();  
Ex: testArray2.back() // returns 0 because the uninitialized elements are 0.

# 6. Fill Function

name.fill(value);  
Ex: testArray1.fill(0); // fills array with 0;

# 7. Swap Function

array1.swap(array2);  
Ex: testArray1.swap(testArray2);

# 8. Empty Function

array1.empty();  
Ex: testArray1.empty() // returns true if array is empty;

# 9. Size Function

array.size();  
Ex: testArray2.size() // returns the size of the array;

# 10. Max Size Function

array.max\_size();  
Ex: testArray2.max\_size(); // returns the max possible size;