C++ arrays elements shift one index left , array elements shift on index right , example , one element
is waste and one is double array is 3 ,9,10,25,4 . it move left is 9,10,25,4,4 .it move right 3,3,9,10,25

```cpp
#include <iostream>

const int size = 5;

// Function to display the array
void displayArray(int arr[]) {
    for (int i = 0; i < size; ++i) {
        std::cout << arr[i] << " ";
    }
    std::cout << "\n";
}

// Function to shift array elements one index to the left with wasted first element
void shiftLeft(int arr[]) {
    for (int i = 0; i < size - 1; ++i) {
        arr[i] = arr[i + 1]; // Shift elements to the left
    }
}

// Function to shift array elements one index to the right with duplicated last
element
void shiftRight(int arr[]) {

    for (int i = size - 1; i > 0; i--) {
        arr[i] = arr[i - 1]; // Shift elements to the right
    }

}

int main() {
    int arr[size] = { 3, 9, 10, 25, 4 }; // Given example array

    // Display original array
    std::cout << "Original Array: ";
    displayArray(arr);

    // Shift elements one index to the left with wasted first element
    shiftLeft(arr);
    std::cout << "Array after shifting left: ";
    displayArray(arr);

    // Shift elements one index to the right with duplicated last element
    shiftRight(arr);
    std::cout << "Array after shifting right: ";
    displayArray(arr);

    return 0;
}
```