- **Bubble Sort**

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

void swap(int *xp, int *yp)
{
	int temp = *xp;
	*xp = *yp;
	*yp = temp;
}

void bubbleSort(int arr[], int n)
{
	int i, j;
	for (i = 0; i < n-1; i++)

	for (j = 0; j < n-i-1; j++)
		if (arr[j] > arr[j+1])
			swap(&arr[j], &arr[j+1]);
}

void printArray(int arr[], int size)
{
	int i;
	for (i = 0; i < size; i++)
		cout << arr[i] << " ";
	cout << endl;
}


int main()
{
	int arr[] = {64, 34, 25, 12, 22, 11, 90};
	int n = sizeof(arr)/sizeof(arr[0]);
	bubbleSort(arr, n);
	cout<<"Sorted array: \n";
	printArray(arr, n);
	return 0;
}
```

- ## Selection Sort

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

void swap(int *xp, int *yp)
{
	int temp = *xp;
	*xp = *yp;
	*yp = temp;
}

void selectionSort(int arr[], int n)
{
	int i, j, min_idx;

	for (i = 0; i < n-1; i++)
	{
		min_idx = i;
		for (j = i+1; j < n; j++)
		if (arr[j] < arr[min_idx])
			min_idx = j;

		swap(&arr[min_idx], &arr[i]);
	}
}

void printArray(int arr[], int size)
{
	int i;
	for (i=0; i < size; i++)
		cout << arr[i] << " ";
	cout << endl;
}

int main()
{
	int arr[] = {64, 25, 12, 22, 11};
	int n = sizeof(arr)/sizeof(arr[0]);
	selectionSort(arr, n);
	cout << "Sorted array: \n";
	printArray(arr, n);
	return 0;
}
```