

```
// Insertion Sort Method to sort a given array of
// integers.cpp : This file contains the 'main' function.
// Program execution begins and ends there.
//
```

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

```
void insertionSort(int arr[], int size)
{
    int key, j;
    for (int i = 1; i < size; i++)
    {
        key = arr[i];
        j = i - 1;
        while (j >= 0 && arr[j] > key)
        {
            arr[j + 1] = arr[j];
            j--;
        }
        arr[j + 1] = key;
    }
}
```

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

```
int main()
{
    int arr[10] = { 10,50,40,2,5,80 };
    int size = sizeof(arr) / sizeof(arr[0]);
    cout << "\nbefor selection sort....." << endl;
    printArray(arr, size);

    insertionSort(arr, size);
    cout << "\nafter selection sort....." << endl;
    printArray(arr, size);
}
```