Code (Insertion Sort)

```
#include <iostream>
using namespace std;
void insertNextItem(int a[], int i);
void insertionSort(int a[], int n);
int main()
 int n = 0;
 cout << "Type size of array: ";</pre>
  cin >> n;
  int* nums = new int[n];
  cout << "Insert " << n << " numbers" << endl;</pre>
  for (int i = 0; i < n; i++)
   cin >> nums[i];
  insertionSort(nums, n);
  return 0;
}
void insertionSort(int a[], int n)
  int i;
  for (i = 1; i < n; i++)
   insertNextItem(a, i);
 for (i = 0; i < n; i++)
   cout << a[i] << " ";
void insertNextItem(int a[], int i)
  int newItem(a[i]), insertPos(i);
  for (; insertPos && newItem < a[insertPos - 1]; insertPos--)</pre>
    a[insertPos] = a[insertPos - 1];
    a[insertPos - 1] = newItem;
}
```

Code (Insertion Sort) 1