第二章 插入排序

```
#include <iostream>
#include <string>
using namespace std;
template<class T>
void InsertSort(T array[], int length){
 int i;
 for (int j = 1; j < length; j++){
   T \text{ key} = \operatorname{array}[j];
   i = j - 1;
   while (i >= 0 && array[i] > key){//array[i] < key则为倒序排序
    array[i + 1] = array[i];
    i--;
   array[i+1] = key;
 }
};
int main(){
 int n;
 cout << "输入数组长度: " << endl;
 cin >> n;
 int *arrays = new int[n];
 cout << "输入数组的各个数字: " << endl;
 int j = 0;
 while (j \le n)
   cin >> arrays[j];
   j++;
 InsertSort(arrays, n);
 j = 0;
 while (j \le n){
   cout << arrays[j] << "";
   j++;
 cout << endl;
 delete arrays;
 return 0;
```