## P22 2.3-4 插入排序递归算法

```
#include <iostream>
using namespace std;
template<class T>
void Insertion(T array[], int first, int last){
 int i = last - 1;
 T \text{ key} = \operatorname{array}[last];
 while (i \ge 0 \&\& array[i] \ge key){
   array[i + 1] = array[i];
   i--;
 array[i+1] = key;
template<class T>
void RecursionInsertionSort(T array[], int first,int last){
 if (first < last){</pre>
   last = last - 1;
   RecursionInsertionSort(array, first, last);
   Insertion(array, first, last+1);
}
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++;
 RecursionInsertionSort(arrays, 0, n - 1);
 j = 0;
 while (j < n)
   cout << arrays[j] << "";
   j++;
```

```
cout << endl;
delete arrays;
return 0;
}</pre>
```