

## P23 2-2 冒泡排序

```
#include <iostream>

using namespace std;

template<class T>

void Swap(T &a, T &b){

    T temp = a;

    a = b;

    b = temp;

}

template<class T>

void BubbleSort(T array[], int length){

    for (int i = 0; i < length - 1; i++){

        for (int j = 0 ; j < length-1-i ; j++){

            if (array[j] > array[j+1]){

                Swap(array[j], array[j + 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 < n){

        cin >> arrays[j];

        j++;

    }

    BubbleSort(arrays, n);

    j = 0;

    while (j < n){

        cout << arrays[j] << " ";

        j++;

    }

    cout << endl;

    delete arrays;
```

```
return 0;
```

```
}
```