

P16 2.2-2 选择排序

```
#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 SelectionSort(T array[], int length){

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

        int min = i;

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

            if (array[j] < array[ min]){

                min = j;

            }

        }

        Swap(array[i],array[min]);

    }

}

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++;

    }

    SelectionSort(arrays, n);

    j = 0;

    while (j < n){

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

        j++;

    }

}
```

```
cout << endl;  
delete arrays;  
return 0;  
}
```