

P12 2.1-3 查找元素，返回下标

```
#include <iostream>
#include <string>
using namespace std;
template<class T>
int LinearSearch(T array[], int length, T value){
    for (int i = 0; i < length; i++){
        if (value == array[i]){
            return i;
        }
    }
    return -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++;
    }
    cout << "输入要查找的数字: " << endl;
    int number;
    cin >> number;
    int v = LinearSearch(arrays, n, number);
    cout << v << endl;
    delete arrays;
    return 0;
}
```