

C++ primer P94 练习3.20

```
#include <iostream>
#include <string>
#include <vector>
using namespace std;
int main(){
    vector<int> vec;
    int num;
    cout << "please input the numbers:" << endl;
    while (cin >> num){
        vec.push_back(num);
    }
    int length = vec.size();
    if (length == 0){
        cout << "there is no number!" << endl;
        return 0;
    }
    for (int j = 0; j < length - 1; j += 2){
        cout << vec[j] + vec[j + 1] << " ";
    }
    cout << endl;
    if (length % 2 != 0){
        cout << "the last number " << vec[length - 1] << " can't be added to other" << endl;
    }
    for (int j = 0; j < length / 2; j++){
        cout << vec[j] + vec[length - 1 - j] << " ";
    }
    cout << endl;
    if (length % 2 != 0){
        cout << "the mid number " << vec[length / 2] << " can't be added to other" << endl;
    }
    cout << endl;
    return 0;
}
```