```
#include <iostream>
using namespace std;
const int MinNumber=-1000000;
struct Node
{
        Node(int x)
                value=x;
                next=NULL;
        int value;
        Node* next;
};
int GetMax(Node* a)
{
        if(a==NULL) // 空链表 这时返回 MinNumber
                return MinNumber;
        int bValue=GetMax(a \rightarrow next);
        if(a->value > bValue) // 作为递归出口
               return a->value;
        e 1 s e
                return bValue;
int GetNodeNum(Node* a)
        if(a==NULL) // 作为递归出口
                return 0;
        return 1+GetNodeNum(a->next);
double GetAvg(Node* a, int n) //主要思想为: 平均数公式 (a1+ a2+... +an)/n = a1/n+ a2/n+...
+an/n
```

```
i f (a == NULL)
                      return 0;
           return a->value/(double)n+GetAvg(a->next,n);
int main()
           Node* a=new Node(1);
           a \rightarrow next = new Node(2);
           a \rightarrow next \rightarrow next = new Node(3);
           a \rightarrow next \rightarrow next \rightarrow next = new Node(4);
           a \rightarrow next \rightarrow next \rightarrow next \rightarrow next = new Node(5);
           int max=GetMax(a);
           cout << max << endl;</pre>
           int nodeNum=GetNodeNum(a);
           cout << nodeNum << endl;</pre>
           double avg=GetAvg(a, nodeNum);
           cout \ll avg \ll end1;
           return 0;
```