```
template<class T>
#include<iostream>
                                                                                                                             else
                                                                                                                                                                                                                       public:
                                                                                                                                                                                                                       friend complex operator+(const complex & A, const complex & B);
 conio.h cstdlib stdio
                                                                                                                                      return mid; }
                                                                                                                                                                                                                                                                                                                                    class myslist
 using namespace std;
                                                                                                                                                                                                                                                                                                                                           private:
                                                                                                                                                                                                                                                                                                                                            unsigned int listlength;
slistNode<T>* node;//临时节点
slistNode<T>* lastnode;//头结
                                                                                                                                                                                                                                friend complex operator-(const complex &
                                                                                                            int BinarySearchRecursive(int *array, int low, int
for (a=1:a<=20:a++)
                                                                                                                                                                                                                        A. const complex & B):
  for (b=1;b<=33;b++)
for (c=3;c<=99;c++)
                                                                                                            high, int key) //递归//二分查找
                                                                                                                                                                                                                                friend complex operator*(const complex &
                                                                                                                                                                                                                                                                                                                                            slistNode<T>* headnode;//尾节点
                                                                                                            { if (low > high)
                                                                                                                                                                                                                        A, const complex & B);
      if (5*a+3*b+c/3==100)
if (a+b+c==100)
                                                                                                                    return -1;
int mid = ( low + high )/2;
                                                                                                                                                                                                                       friend complex operator/(const complex & A, const complex & B);
                                                                                                                                                                                                                                                                                                                                            public:
                                                                                                                                                                                                                                                                                                                                                     myslist();//初始化
                                                                                                                                                                                                                                                                                                                                    unsigned int length()://链表元素的个数 void add(T x)://表尾添加元素 void traversal()://遍历整个链表并打印 bool isEmpty()://判断链表是否为空 slistNode<T>* find(T x)://查找值为 x 的 节点,返回节点的地址,找不到返回 NULL
          if (c%3==0){
cout<<"公鸡数为:"<<a<<"母鸡
:"<<b<<"小鸡数为:"<<c<endl;
                                                                                                                     if ( array[mid] == key )
                                                                                                                                                                                                                                friend istream & operator>>(istream & in,
                                                                                                                             return mid:
                                                                                                                                                                                                                        complex & A):
                                                                                                                    else if ( array[mid] < key )
return BinarySearchRecursive(array,
                                                                                                                                                                                                                       friend ostream & operator<<(ostream & out, complex & A);
数为:
                                                                                                            mid+1, high, key);
template<class Type> //冒泡排序
void BubbleSort(Type* array,int start,int end){
for(int i = 0;i < end - start;i++)
                                                                                                                                                                                                                       double m_real; //实部
double m_imag; //虚部};
//重载加法运算符 complex operator+(const
                                                                                                                             return BinarySearchRecursive(array,
                                                                                                                                                                                                                                                                                                                                                    void Delete(T x);//删除值为 x 的节点
void insert(T x,slistNode<T>* p);//在 p
                                                                                                            low, mid-1, key); }
                 for(int j = 0;j < end - start;j++){
    if(array[j] > array[j + 1])
                                                                                                            int main()
                                                                                                                                                                                                                        complex & A, const complex &B){
                                                                                                                                                                                                                                                                                                                                    节点后插入值为 x 的节点
                                                                                                                                                                                                                                complex C;
C.m_real = A.m_real + B.m_real;
C.m_imag = A.m_imag + B.m_imag;
                                                                                                            { int array[10];
                                                                                                                                                                                                                                                                                                                                                     void insertHead(T x);//链表头部插入节
in(array[i] > array[i] + 1])
swap(array[i],array[i] + 1]); } }
template<class Type> //选择排序
void SelectionSort(Type* array,int start,int end){
for(int i = 0;i < end - start,i++)
for(int j = i + 1;j < end - start + 1;j++){
if(array[i] > array[ii] array[ii] }
                                                                                                                    for (int i=0; i<10; i++)
array[i] = i;
                                                                                                                                                                                                                                                                                                                                    template<class T>
                                                                                                                    cout<<"No recursive:"<<endl;
cout<<"position:"<<BinarySearch(array, 10,
                                                                                                                                                                                                                                                                                                                                    myslist<T>::myslist()
{ node=NULL;
                                                                                                                                                                                                                                 return C;}
                                                                                                                                                                                                                        // 重载减法运算符 complex operator-(const
                                                                                                                                                                                                                        complex & A, const complex &B){
    complex C;
    C.m_real = A.m_real - B.m_real;
                                                                                                            6)<<endl:
                                                                                                                                                                                                                                                                                                                                            lastnode=NULL:
                                                                                                           o)<endi;
cout<<"recursive:"<endl;
cout<<"position:"<<BinarySearchRecursive(arr
ay, 0, 9, 6)<<endl;
return 0; }
                                                                                                                                                                                                                                                                                                                                            headnode=NULL;
swap(array[i]); } } template<class Type> //插入排序
void InsertionSort(Type* array,int start,int end){
for(int i = 1;i < end - start + 1;i++)
                                                                                                                                                                                                                                                                                                                                    listlength=0;}
template<class T>
                                                                                                                                                                                                                                 C.m_imag = A.m_imag - B.m_imag;
                                                                                                                                                                                                                                 return C;}
                                                                                                                                                                                                                                                                                                                                    inline unsigned int myslist<T>::length(){return
                                                                                                                                                                                                                        //重载乘法运算符 complex operator*(const
                                                                                                                                                                                                                                                                                                                                    listlength;}
                                                                                                                                                                                                                       // 里 報 東 法 広 真 付 complex operator (const
complex & A, const complex &B){
complex C;
C.m_real = A.m_real * B.m_real -
A.m_imag * B.m_imag;
C.m_imag = A.m_imag * B.m_real +
A.m_real * B.m_imag;
return C;}
                 for(int j = 0;j < i;j++){
if(array[j] > array[i]){
                                                                                                            # include <iomanip>//二分法解方程
double func(double x)
                                                                                                                                                                                                                                                                                                                                   template<class T> void myslist<T>::add(T x)
                                  int temp = array[i];
for(int k = i;k > j;k--)
                                                                                                            {return (x*x*x - 6 * x - 3);}
void root(double a, double b, double e, double
                                                                                                                                                                                                                                                                                                                                           node=new slistNode<T>();//申请一个新的
                                                                                                                                                                                                                                                                                                                                    .
节点
*pResult)
{ while (b - a >= e)
                                                                                                                                                                                                                                                                                                                                           ·
node->data=x;//新节点赋值为 x
if(lastnode==NULL)//如果没有尾节点则链
                                                                              //此时
                                                                                                                                          *pResult = (a + b) / 2;
if (func(*pResult) * func(a) < 0)
                                                                                                                                                                                                                       return C;}

// 重载除法运算符 complex operator/(const
                                                                                                                                                                                                                                                                                                                                    表为空,node 既为头结点,又是尾节点
{ headnode=node;
                                                                                                                                                                                                                                                                                                                                                     lastnode=node;}
int Partition(Type *a,int start,int end){
    Type x = a[start];
                                                                                                                                        {b = *pResult;}
else if (func(*pResult) * func(a) >
                                                                                                                                                                                                                        complex & A, const complex & B){
    complex C;
                                                                                                                                                                                                                                                                                                                                            else//如果链表非空
                                                                                                                                                                                                                       complex C;
double square = A.m_real * A.m_real +
A.m_imag * A.m_imag;
C.m_real = (A.m_real * B.m_real +
A.m_imag * B.m_imag)/square;
C.m_imag = (A.m_imag * B.m_real -
A.m_real * B.m_imag)/square;
_return C:1
         int i = start;
                                                                                                            0)
                                                                                                                                                                                                                                                                                                                                            {lastnode->next=node;//node 既为尾节点的
                                                                                                                                                                                                                                                                                                                                           -个节点
lastnode=node;//node 变成了尾节点,把尾
         for(int j = start + 1;j <= end;j++){
                                                                                                                                           {a = *pResult;}
                 if(a[j] <= x){
i++;
                                                                                                                                           else
                                                                                                                                                                                                                                                                                                                                     节点赋值为 node}
                                                                                                                                           {break;}}}
                                                                                                                                                                                                                                                                                                                                   ++listlength://元素个数+1}
template<class T>
void myslist<T>::traversal()
{node=headnode://用临时节点指向头结点
                          swap(a[i],a[j]); }
                                                                                                            int main()
                                                                                                            {double e = (double)0.00000001;
swap(a[i],a[start]); //把基准的值放在中间,则左边都小于他. 右边都大于他 return i; } template<class Type> void QuickSort(Type *array,int start,int end){
                                                                                                                          double a = (double)2;
double b = (double)3;
                                                                                                                                                                                                                                return C:}
                                                                                                                                                                                                                        //重载输入运算符 istream & operator>>(istream
                                                                                                                           double Result;
root(a, b, e, &Result);
                                                                                                                                                                                                                       & in, complex & A){
    in >> A.m_real >> A.m_imag;
                                                                                                                                                                                                                                                                                                                                        while(node!=NULL)//遍历链表并输出
{cout<<node->data<<ends;
                                                                                                                                                                                                                       return in;}

// 重载输出运算符ostream & operator<<(ostream & out, complex & A){
out << A.m_real <<" + "<< A.m_imag <<" i
                                                                                                                           cout << setiosflags(ios::fixed);
cout << " 所 求 实 根 为 : " <<
         if(start < end){
                                                                                                                                                                                                                                                                                                                                              node=node->next:}
                                                                                                                                                                                                                                                                                                                                            cout<<endl;}
                 int q = Partition(array,start,end); //分割
                                                                                                            setprecision(9) << Result << endl;
return 0;}
                                                                                                                                                                                                                                                                                                                                   template<class T>
bool myslist<T>::isEmpty()
成两
                  QuickSort(array,start,q - 1);
                                                                                                                                                                                                                                                                                                                                   //复化梯形公式求定积分
#include<iostream> <cmath> std;
QuickSort(array,q + 1,end); } } template<class Type> //希尔排序 void ShellPass(Type* array,int start,int end,int
                                                                                                            int main()
                                                                                                                                                                                                                       int main(){
                                                                                                            {double up,down,a,b,c,n= 100; //积分区间分为 n
                                                                                                                                                                                                                                complex c1, c2, c3;
d){
         for(int i = 0; i < d; i++) \{ 
 for(int j = start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end - start + i + d; j < end 
                                                                                                                                                                                                                                cin>>c1>>c2;c3 = c1 + c2;
cout<<"c1 + c2 = "<<c3<<endl;
                                                                                                                                                                                                                                                                                                                                      while(node!=NULL&&node->data!=x)// 遍 历 链
                                                                                                            cout << "依次输入积分上限 up、积分下限 down 和函数参数 a、b、c 的值: " << endl; cin >> up >> down >> a >> b >> c; cout <<
                                                                                                                                                                                                                                                                                                                                     表,遇到值相同的节点跳出
                                                                                                                                                                                                                                c3 = c1 - c2;
cout<<"c1 - c2 = "<<c3<<endl;
c3 = c1 * c2;
                                                                                                                                                                                                                                                                                                                                     {node=node->next;}
return node;//返回找到的节点的地址,如果没
1;j += d)
                          for(int k = start + i; k < j; k += d){
                                  if(array[k] > array[j])(

Type temp = array[j];

for(int l = j;l > k;l -= d)

array[l] = array[l - d];
                                                                                                            endl:
                                                                                                                                                                                                                                                                                                                                     有找到则返回 NULL}
                                                                                                                                                                                                                                                                                                                                    有技到则返回 NULL}
template<class T>
void myslist<T>::Delete(T x)
{slistNode<T>* temp=headnode;//申请一个临时
节点指向头节点
if(temp==NULL) return;//如果头节点为空,则该
をまま工事となどに回
                                                                                                                                                                                                                                cout<<"c1 * c2 = "<<c3<<endl;
c3 = c1 / c2;
                                                                                                                double h = (up -down) / n; //迭代步长
double result, fx=0, fa, fb; //result 积分最终
                                                                                                                                                                                                                                 cout<<"c1 / c2 = "<<c3<<endl;
                                                                                                          array[k] = temp; \} \} \} \}template<class Type> //希尔排序
                                                                                                                                                                                                                                return 0:}
                                                                                                                                                                                                                       #include<Cmath> /////重要
fabs(x) ceil(x) 不小于 x 的最小整数
floor(x) 不大于 x 的最大帧数 log(x)
                                                                                                                                                                                                                                                                                                                                    链表无元素,直接返回
void ShellSort(Type* array,int start,int end){
         int d = 10;
                                                                                                                                                                                                                                                                                                                                      if(temp->data==x)//如果头节点的值为要删除
         while (d > 0){
 d = (d + 1) / 2;
                                                                                                                                                                                                                       log10(x) exp(x) //e^x
//万扣灭灯
                                                                                                                                                                                                                                                                                                                                   时间,则删除役节点
{headnode=temp->next;//把头节点指向头
节点的下一个节点
if(temp->next==NULL) lastnode=NULL;//
如果链表中只有一个节点,删除之后就没有节点
了,把尾节点置为空
delate(temp)://删除之时,并
                                                                                                                                                                                                                                                                                                                                    的值,则删除投节点
                                                                                                                                                                                                                       int t[6][8], w[6][8];
                  ShellPass(array,start,end,d);
                                                                                                                                                                                                                         void fuck();
                  if(d == 1)
                        break:
                                              } }
                                                                                                                                                                                                                       bool u():
                                                                                                                                                                                                                                    ),
n(void)
//输入数组
for (int i = 1;i < 6;++i)
for (int j = 1;j < 7;++j)
cin >> t[i][j];
 int main(){
                            //海盗
  int pirate[30];
                                                                                                                                                                                                                                                                                                                                                     delete(temp);//删除头节点
                                                                                                                                                                                                                                                                                                                                   return;}
while(temp->next!=NULL&&temp->next->data!
  int i,j,survived;
  for(i=0;i<30;i++)
                                                                                                                                                                                                                                                                                                                                    =x)//遍历链表找到第一个值与 x 相等的节点,temp表示这个节点的上一个节点
                                                                                                            double f(double x)
{ return 1.0/(1+x*x);}
    pirate[i]=0;
   i=0:i=0:
  for(survived=30;survived>1;){
if(pirate[i]==0){
                                                                                                                                                                                                                                                                                                                                            {temp=temp->next;}
if(temp->next=NULL) return;//没有找到则
                                                                                                             double SnSum(double a, double b, double n)
                                                                                                              double sum = v,

for(int i=1; i<=n; i++){

+= 2*f(1.0/n*i)+4*f((1.0/n*(i-1.0/n*i)+4*f((1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/n*i(1.0/n*i)+1.0/
                                                                                                                                                                                                                                       for (int i = 1:i < 6:++i)
                                                                                                            { double sum = 0:
                                                                                                                                                                                                                                                     i = 1;i < 0;++i)
for (int j = 1;j < 7;++j)
cout << w[i][j]<<" ";
      j++;
if(j%7==0){
                                                                                                                                                                                                                                                                                                                                    返回
                                                                                                                                                                                                                                                                                                                                            if(temp->next==lastnode)//如找到的时候尾
        pirate[i]=1;
cout<<"No."<<i+1<<" private jump"<<endl;
                                                                                                             1)+1.0/n*i)/2); }
                                                                                                                                                                                                                                                      cout << endl;}
                                                                                                                                                                                                                                                                                                                                    节点
                                                                                                                                                                                                                      getch();
return 0;
                                                                                                              return sum:}
                                                                                                                                                                                                                                                                                                                                            { lastnode=temp;//把尾节点指向他的上一个
      survived.=1;
} i=(i+1)%30;}
                                                                                                             double Sn(double a, double b, int n)
                                                                                                            \{ double h = (b-a)/n : \}
                                                                                                                                                                                                                        }void fuck()
                                                                                                                                                                                                                                                                                                                                                     delete(temp->next);//删除尾节点
  for(i=0;i<30;i++)
if(pirate[i]==0)
                                                                                                                                                                                                                                      for (int a = 0;a < 2;++a)
for (int b = 0;b < 2;++b)
                                                                                                                                                                                                                                                                                                                                            temp->next=NULL; }
else//如果不是尾节点
                                                                                                               return h/6*(f(a)+f(b)+SnSum(a,b,n));}
                                                                                                            int main()
                                                                                                            { double n; cout<<"等分次数 n:"; cin>>n; cout<<"许算结果:"<<Sn(a,b, n)<<endl;}
                                                                                                                                                                                                                                                 for (int c = 0;c < 2;++c)
for (int d = 0;d < 2;++d)
for (int e = 0;e < 2;++e)
for (int f = 0;f < 2;++f)
       cout<<"No."<<i+1<<" private survive"<<endl;
                                                                                                                                                                                                                                                                                                                                             { node=temp->next;//用临时节点 node 指向
                                                                                                                                                                                                                                                                                                                                    要删除的节点
       return 0;}
int f(int x) //兔
{if (x == 1 || x == 2)
                                                                                                                                                                                                                                                                                                                                    temp->next=node->next;//要删除的节点的上一个节点指向要删除节点的下一个节点
                            //兔子生兔子
                                                                                                            //牛顿迭代法求一元三次方程组根
                                                                                                                                                                                                                                                                                                                                                    delete(node);//删除节点
node=NULL; }}
                                                                                                                                                                                                                                       {w[1][1] = a;
w[1][3] = c;
                                                                                                                                                                                                                                                                      w[1][2] = b;
w[1][4] = d;
                                                                                                            #include <stdio.h>
                                                                                                            #include<math.h>
                                                                                                                                                                                                                                                                                                                                   template<class T>
void myslist<T>::insert(T x,slistNode<T>* p)
                                                                                                                                                                                                                                       w[1][5] = e;
               return f(x - 1) + f(x - 2);
                                                                                                            double solut(double a,double b,double c,double
                                                                                                                                                                                                                        if (u())
} int main(void)
                                                                                                            d)
                                                                                                                                                                                                                                          {return;}
                                              scanf("%d", &a);
                                                                                                                      double x=1,x1=2,f,f1;
                                                                                                                                                                                                                        bool u()
                                                                                                                                                                                                                                                                                                                                   { if(p==NULL) return; node=new slistNode<T>();//申请一个新的
                                                                                                                                                                                                                        \begin{cases} & \text{for (int } r = 1; r <= 4; ++r) \\ & \text{for (int } k = 1; k <= 6; ++k) \\ & \text{w[} r + 1][k] = (t[r][k] + w[r][k] + w[r][k] + w[r][k + 1]) \% \end{cases} 
               a = f(a):
                                                                                                                     while(fabs(x1-x)>=0.00000001)
                                                                                                                            f=((a*x+b)*x+c)*x+d;
f1=(3*a*x+2*b)*x+c;
               printf("\n%d", a);
                                                                                                                                                                                                                                                                                                                                    空间
               return 0;}
                                                                                                                                                                                                                                                                                                                                            node->data=x;
                                                                                                                             x=x1;
x1=x-f/f1;
int BinarySearch(int *array, int aSize, int key)/不
                                                                                                                                                                                                                                                                                                                                            node->next=p->next;
递归
                                                                                                                                                                                                                                                                                                                                            p->next=node;
                                                                                                                                                                                                                                       for (int r = 1;r <= 6;++r)
if ((w[5][r] + w[5][r - 1] + w[5][r +
                                                                                                                                                                                                                                                                                                                                            if(node->next==NULL)//如果 node 为尾节点
lastnode=node;}
        if ( array == NULL || aSize == 0 ) //二分查
                                                                                                                             return x1;}
                                                                                                            int main()
                                                                                                                                                                                                                                                                                                                                    template<class T>
void myslist<T>::insertHead(T x)
         return -1;
int low = 0;
                                                                                                                                                                                                                        1] + w[4][r]) % 2 != t[5][r])
                                                                                                            solut(double ,double ,double );
                                                                                                                                                                                                                                                                    return false;
                                                                                                                                                                                                                                                                                                                                         node=new slistNode<T>();
node->data=x;
node->next=headnode;
headnode=node;}
                                                                                                                    double a,b,c,d;
scanf("%lf%lf%lf%lf%lf",&a,&b,&c,&d);
printf("%.2f",solut(a,b,c,d));;
         int high = aSize - 1;
int mid = 0;
                                                                                                                                                                                                                                      return true;}
                                                                                                                                                                                                                       //链表 template<class T> class slistNode
         while ( low <= high )
{ mid = (low + high )/2;
                                                                                                                    return 0; }
                                                                                                           class complex{ public:
               if ( array[mid] < key)
low = mid + 1;
                                                                                                                                               //复数类重载有关
                                                                                                                                                                                                                                                                                                                                   //链表结束
string str="abc";
                                                                                                                                                                                                                                 slistNode(){next=NULL;}
                                                                                                                    complex(double real = 0.0, double imag =
                                                                                                                                                                                                                                 T data;//值
slistNode* next;//指向下一个节点的指针};
                  else if ( array[mid] > key )
                                                                                                                                                                                                                                                                                                                                    char *p=str.data();
                                                                                                                                                                                                                                                                                                                                    1、如果要将 string 转换为 char*, 可以使用 string
                                                                                                            0.0): m_real(real), m_imag(imag){ };
                          high = mid - 1;
```

提供的函数 c_str() , 或是函数 data(),data 除	{public:	if (op[1] >= '0' && op[1] <= '9')	words_num)
了返回字符串内容外,不附加结束符'\0',而 c_str()返回一个以'\0'结尾的字符数组。	int CreateStack(Stack *s); int stack_empty(Stack s);	{d = atof(op);push(&s, d);break;} pull(&s, &d);pull(&s, &e);	//参照上面 void punctuation(char *content)//标点符号转为
2、const char *c_str(); c_str()函数返回一个指向正规_C_字符串的指针,	int push(Stack *s, T x); int pull(Stack *s, T *x);	f = e - d;push(&s, f);break; case '*':	空格 {for (int i = 0; content[i]; ++i)
内容与本 string 串相同	int quit();	pull(&s, &d);pull(&s, &e);	$\{if(content[i] < 'A'    content[i] > 'Z')\}$
注意:一定要使用 strcpy()函数 等来操作方法 c_str()返回的指针:	<pre>int CreateExpression(char *inorder); int TransmitExpression(char *inorder, char</pre>	f = e * d;push(&s, f);break; case '/':	{if (content[i] < 'a'    content[i] > 'z') content[i] = ' ';}} }
char c[20]; string s="1234";	*postorder); int EvaluateExpression(char *postorder, T	pull(&s, &d);pull(&s, &e); f = e / d;push(&s, f);break;	<pre>void words_num(char *content) {char seps[] = " ";</pre>
strcpy(c,s.c_str()); 再举个例子	*result); void Begin();};	default: //考虑数字的情况,进行atof函数进行转化	char *taken1 = NULL; char *taken2 = NULL;
c_str() 以 char* 形式传回 string 内含字符串	template <class t=""></class>	d = atof(op);push(&s, d); //进行压栈 break;}}	<pre>char *next_taken = NULL;</pre>
如果一个函数要求 char*参数,可使用 c_str()方法: string s = "Hello World!";	int Caculation <t>::CreateStack(Stack *s)//栈项 指针初始化,建立一个空栈。</t>	<pre>pull(&amp;s, result);return 0;} template<class t=""></class></pre>	<pre>punctuation(content); int i = 0;    char *single[N] = {};</pre>
printf("%s",s.c_str()); //输出 "Hello World!" char *转换成 string 可以直接赋值。	{s->top = -1;return 1;} template <class t=""></class>	void Caculation <t>::Begin() {char inorder[MAXSIZE] = { 0 };//中缀表达式</t>	taken1 = strtok_s(content, seps, &next_taken); while (taken1 != NULL)
string s; char *p = "adghrtyh"; s = p;	int Caculation <t>::stack_empty(Stack s)//判断</t>	char postorder[MAXSIZE] = { 0 };//后缀表达式	{ single[i] = taken1;
深拷贝浅拷贝区别 简单的来说就是,在有指针的情况下,浅拷贝只	栈是否为空。 {if (s.top == -1) return 1;	double result; CreateExpression(inorder);	taken1 = strtok_s(NULL, seps, &next_taken); i++;}
是增加了一个指针指向已经存在的内存,而深拷 贝就是增加一个指针并且申请一个新的内存,使	else return 0;} template <class t=""></class>	TransmitExpression(inorder, postorder); cout << "转化后的后缀表达式是: " << endl;	user_continue(single, i);} void File_num(char *content)
这个增加的指针指向这个新的内存,采用深拷贝 的情况下,释放内存的时候就不会出现在浅拷贝	int Caculation <t>::push(Stack *s, T x)//入栈 {if (s-&gt;top == MAXSIZE - 1)//栈满</t>	<pre>cout &lt;&lt; postorder &lt;&lt; endl; EvaluateExpression(postorder, &amp;result);</pre>	{int i, j; int kind[128] = {}; puts("字母频数: ");
时重复释放同一内存的错误!	return 0;	cout << "计算结果: " << endl;	for (i = 0; content[i]; ++i)
class string { char *m_str;	else s->top++; s->data[s->top] = x;//将x推入栈	cout << result << endl;} int Continue()	(if (content[i] >= 'A' && content[i] <= 'Z')
public: string(char *s)	return 1;} template <class t=""></class>	{char wait; puts("\n\n继续吗?是请按Enter键,否请按任意	<pre>for (i = 0; content[i]; ++i) { if (content[i] &gt;= 'a' &amp;&amp; content[i] &lt;= 'z')</pre>
{m_str=s;} string() {};	int Caculation <t>::pull(Stack *s, T *x)//出栈 {if (s-&gt;top == -1)//栈空 return 0;</t>	键"); getchar();wait = getchar();	kind[content[i]]++;} for (j = 0; j < 128; j++)
String & operator=(const string s)//浅拷贝	else *x = s->data[s->top];//栈顶元素弹出赋	if (wait != '\n') return 0;	{ if (kind[j])
{m_str=s.m_str; return *this}};	予x s->top; return 1;}	else return 1;} 10 进制转 8 进制	{cout << (char)j << " : " << kind[j] << endl;}} }
int main() {string s1("abc"),s2;	template <class t=""> int Caculation<t>::quit()</t></class>	<pre>int * Stack::Single(int number) {     int *single_eight;</pre>	<pre>char *file_read(ifstream &amp;File, char *content) {if (File)</pre>
s2=s1; cout< <s2.m str;}<="" td=""><td>{exit(0); return 0;} template<class t=""></class></td><td>int m;//余数 int n = 0;</td><td><pre>{while (!File.eof()) { File.read(content, N);</pre></td></s2.m>	{exit(0); return 0;} template <class t=""></class>	int m;//余数 int n = 0;	<pre>{while (!File.eof()) { File.read(content, N);</pre>
string&operator=(const string&s)//深拷贝	int Caculation <t>::CreateExpression(char</t>	int fake = number;	<pre>char *copy = content;</pre>
<pre>{ if(strlen(m_str)!=strlen(s.m_str))</pre>	*inorder)//输入中缀表达式 { <b>cout</b> << <b>"请输入表达式: "</b> << <b>endl</b> ;	while (fake != 0) {  fake /= 8; n++;}//求位数	cout << "读入文章为: \n" << content << endl;
if(*this!=s) strcopy(m_str,s.m_str);	cin >> inorder; return 0;} template <class t=""></class>	single_eight = (int*)malloc(n + 1); int s = 1;	return copy; }} else cerr << "wrong" << endl;
return *this;} //类封装	int Caculation <t>::TransmitExpression(char *inorder, char *postorder)//中缀表达式转为后缀</t>	<pre>while (number != 0) {</pre>	File.close();} }; void main()
#include <iostream> #include <string> /** 定义类: Student</string></iostream>	表达式 { Stack str;	single_eight[s] = m; number /= 8;	{CString Begin; char content[N] = {};
* 数据成员: m strName	double e = 0;//进行出栈入栈操作	S++;}	ifstream File; File.open("file.txt", ios::in);
* 无参构造函数:Student() * 有参构造函数:Student(string _name)	int i = 0, j = 0; l/分别进行循环数组的下标, i为中 缀下标,j为后缀下标。	single_eight[0] = n; return single_eight; }	<pre>char *c_content = Begin.file_read(File, content);</pre>
* 拷贝构造函数: Student(const Student& stu) * 析构函数: ~Student()	int flag = 0; if (CreateStack(&str) != 1)	<b>圆周率</b> #include< <mark>iostream</mark> >include< <mark>time.h&gt;</mark>	Begin.File_num(c_content);//数字母个数 Begin.words_num(c_content);//数单词个数
* 数据成员函数: setName(string _name)、 getName() */	return 0; while (inorder[i]!= '\0') //说明栈中有元素。	#define N 30000; class Point {	system( <mark>"pause"</mark> );} <b>虚函数继承</b>
class Student { public:	{while (inorder[i] >= '0' && inorder[i] <= '9')//若 是数字则输出	private: double x;	class GrandFather {public:
Student() { } //无参构造函数 Student(string_name) { } 有参构造函数:	{ <b>if (flag)</b>	double y;	GrandFather():i_G(5) {cout<<"GrandFather() is
Student(const Student& stu) {} 拷贝构造 函数	postorder[j++] = inorder[i];//让存放后缀表达式 的数组存放字符	void FillPoints(int n0) {for (int i = 0; i < n0; ++i)	called!"< <endl;} td="" virtual="" ~grandfather()<=""></endl;}>
~Student() {}析构函数	i++;	${(this+i)->x = 1.0 * rand() / RAND_MAX;}$	{cout<<"~GrandFather() is
<pre>void setName(string _name) {m_strName=_name; }</pre>	if (inorder[i]<'0'    inorder[i]>' <mark>9'</mark> )	(this+i)->y = 1.0 * rand() / RAND_MAX;}} int CacuInPoints(int n, double r, int n0)	called!"< <endl;} public:<="" td=""></endl;}>
string getName() {return m_strName; }	postorder[j++] = ' ';} if (inorder[i] == ')')  //如果是关于括号的符	{double r0; for (int i = 0; i < n0; ++i)	<pre>virtual void Test() {cout&lt;&lt;"GrandFather::Test() is</pre>
private: string m_strName; };	号,则进行出栈{pull(&str, &e); while (e != '(')	{ $r0 = ((this + i)->x) * ((this + i)->x) + ((this + i)->y) * ((this + i)->y);$	<pre>called!"&lt;<endl;} i_g;="" int="" pre="" private:="" };<=""></endl;}></pre>
int main(void) { // 通过 new 方式实例化对象*stu	{postorder[j++] = e; postorder[j++] = ' '; pull(&str, &e);}}	if (r0 < +r * r) n++;} return n;}	class Father: virtual public GrandFather //虚拟 继承 {public:
Student *stu = new Student(); // 更改对象的数据成员为"慕课网"	else if (inorder[i] == '+'    inorder[i] == '-') //对于 同运算级的+和-操作	double CacuPI(int n0, int n, double r) {double PI;	Father():i_F(7) {cout<<"Father() is called!"< <endl;};< td=""></endl;};<>
stu->setName("慕课网");	{if (inorder[i] == '-' && (i == 0    (i != 0 &&	PI = 4 * (1.0 * n / n0) / (r * r);	virtual ~Father()
// 打印对象的数据成员 cout< <stu->getName()&lt;<endl;< td=""><td>(inorder[i - 1]&lt;'0'    inorder[i - 1]&gt;'9'))))</td><td>return PI;} }; void main()</td><td>{cout&lt;&lt;"~Father() is called!"&lt;<endl;} public:<="" td=""></endl;}></td></endl;<></stu->	(inorder[i - 1]<'0'    inorder[i - 1]>'9'))))	return PI;} }; void main()	{cout<<"~Father() is called!"< <endl;} public:<="" td=""></endl;}>
delete stu; return 0; }	flag = 1; else if (stack_empty(str))//如果栈空	{ int n0;//总点数double r;//圆半径 puts("请输入圆半径(小于或等于1.0):	virtual void Test() {cout<<"Father::Test() is
动态内存: double* pvalue = new double[?]; delete []pvalue; // 释放内存	push(&str, inorder[i]); else	"); cin >> r;	called!"< <endl;} i_f;="" int="" private:="" td="" };<=""></endl;}>
字符串互转 double atof(const char *str)	<pre>{while (!stack_empty(str) &amp;&amp; e != '(') {pull(&amp;str, &amp;e);</pre>	double PIVAL;//最终PI值 Point pts[N] = {};//保存n0个点的坐标	class Uncle: virtual public GrandFather//虚拟继承
{double s = 0.0;//每一位数	if (e == '(') //优先级最大,比较以后入栈	srand(time(NULL));	{ public:
double d = 10.0;//十进制 bool flag = false;//标记是否为正数	push(&str, e); else	for (int i = 0; i < 10; ++i) { int n = 0;//落入圆内的点数	Uncle():i_U(3) {cout<<" <mark>Uncle is called!"&lt;<endl< mark="">;}</endl<></mark>
while (*str == ' ') {str++;}	{postorder[j++] = e; //进行后缀表达式的添加 postorder[j++] = ' '; //最后添加' '字符分隔开 }}	n0 = 10000 + rand() % 20000; cout << "总点数: " << n0 << endl;	<pre>virtual ~Uncle() {cout&lt;&lt;"~Uncle is called!"&lt;<endl;}< pre=""></endl;}<></pre>
if (*str == '-')//记录数字正负 {flag = true;	push(&str, inorder[i]);}} else if (inorder[i] == '*'    inorder[i] == '/'	(*pts).FillPoints(n0); n = (*pts).CacuInPoints(n, r, n0);	public: virtual void Test()
str++;} if (*str < '0'&&*str > '9')//如果一开始非数字则退	inorder[i] == '(')'/对乘除以及左括号的进行入栈 push(&str, inorder[i]);	cout << "圆内点数: " << n << endl; PIVAL = (*pts).CacuPI(n0, n, r);	{cout<<"Uncle ::Test() is called!"< <endl;} i_u;="" int="" private:="" td="" };<=""></endl;}>
出,返回0.0 return 0;	else if (inorder[i] == NULL)//如中序当前读取位 为空	cout << "PI的值: " << PIVAL << endl;} system("pause");}	class Son:public Father,public Uncle {public:
while (*str >= '0'&&*str <= '9'&&*str != '.')//计算	break;	查词频	Son():i_S(9)
小数点前整数部分 {s = s * 10.0 + *str - '0';	else return 0; i++;}	#include <iostream>#include<string> #include<fstream>#define N 1000</fstream></string></iostream>	<pre>{cout&lt;&lt;"Son is called!"&lt;<endl;}; pre="" virtual="" ~son()<=""></endl;};></pre>
str++;} <b>if (*</b> str == '.' <b>)</b> //以后为小数部分	while (!stack_empty(str))//栈非空 {pull(&str, &e);	class CString {public:	{cout<<"~Son is called!"< <endl;} public:<="" td=""></endl;}>
str++; while (*str >= '0'&&*str <= '9')//计算小数部分	postorder[j++] = e; postorder[j++] = ' ';}	<pre>void choose(char ** single, int words_num)</pre>	<pre>virtual void Test() {cout&lt;&lt;"Son ::Test() is called!"&lt;<endl;}< pre=""></endl;}<></pre>
{s = s + (*str - '0') / d; d *= 10.0;	return 1;} template <class t=""></class>	{ string input; int feak_num = 0;	private:int i_S; }; int main(void)
str++;}	int Caculation <t>::EvaluateExpression(char *postorder, T *result)//计算结果</t>	int num = 0; int num = 0; puts("请输入你所需查找频数的单词");	{Son p; p.Test(); cout< <sizeof(son)<<endl;< td=""></sizeof(son)<<endl;<>
return s * (flag ? -1.0 : 1.0);} string to_String(double num)	{Stack s; char *op; //存放后缀表达式中的每个	cin >> input;	cout< <sizeof(father)<<endl;< td=""></sizeof(father)<<endl;<>
{char _str[20]; sprintf_s(_str, 20, "%f", num);	因数或运算符 char *buf = postorder; //声明buf, strtok函数的	<pre>cout &lt;&lt; input.length() &lt;&lt; endl; for (int i = 0; i &lt; words_num; ++i)</pre>	<pre>cout&lt;<sizeof(grandfather)<<endl; 0;="" pre="" return="" }<=""></sizeof(grandfather)<<endl;></pre>
return _str;} 模板堆栈类表达式运算	需要 double d;double e, f;	<pre>{ for (int j = 0; j &lt; input.length(); ++j)     { if (single[i][j] == input[j])</pre>	<b>运行情况:</b> GrandFather() is called!
#define _CRT_SECURE_NO_WARNINGS // 解决139行strtok和strtok s参数引用过少	if (CreateStack(&s) != 1) return 0; while ((op=strtok(buf, " ")) != NULL)字符串分割	feak_num++; else break; }	Father() is called! Uncle is called!
#include <cstdlib> #define MAXSIZE 100</cstdlib>	Manual M	if (feak_num== input.length()) {num++:feak num= 0;}	Son is called! Son ::Test() is called!
struct Stack//定义一个顺序存储栈	Switch (op[0]) {case '+':	else feak_num = 0; }	32 20 8
{double data[MAXSIZE]; int top;//栈顶指针 };	pull(&s, &d);pull(&s, &e);	puts("查找结果为: "); cout << input << " : " << num <<	~Son is called! ~Uncle is called!
template <class t=""> class Caculation</class>	f = d + e;push(&s, f);break; case '-':	endl;} void user_continue(char **single, int	~Father() is called! ~GrandFather() is called!