```
四/8. h=0H+ 计算次数 N(0)=1

h > 0H+ 计算次数 N(n) = N(n-1)+1

=> N(n)= N(n-1)+1=(N(n-2)+1)+1=---
= N(0)+n
= n+1
```

```
∨#include<stack>
#include "List.h"
 using namespace std;
vbool if_center_symmetric(List⟨int⟩ a) {
     int len = a. Length();
     stack(int) b:
     if (len \% 2 == 0) {
          for (int i = 0; i < len / 2; i++) {
              int x:
              a. getData(i + 1, x);
              b. push (x);
         for (int i = len / 2; i < len; i++) {
              int x:
              a. getData(i + 1, x);
              if (x != b. top()) return false;
              else b. pop():
         return true:
     else {
         for (int i = 0; i < (len - 1) / 2; i++) {
              int x:
              a. getData(i + 1, x);
              b. push(x);
         for (int i = (len + 1) / 2; i < len; i++) {
              int x:
              a. getData(i + 1, x);
              if (x != b. top()) return false;
              else b. pop();
         return true;
```

```
#include "SeqQueue.h"
 using namespace std;
vint max_fibonacci(int max, int k) {
     SeqQueue<int> f;
     int a = 0, b = 1;
     while (a < max) {
         if (f.getSize() != k) {
             f. EnQueue(a);
         else {
              int x;
          f. DeQueue(x);
              f. EnQueue (a);
         int c = a + b;
          a = b;
          b = c;
     return a;
```

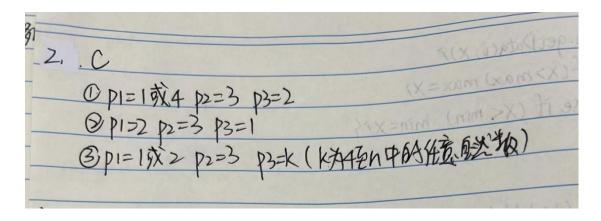
```
∨#include (vector)
 #include <stdlib.h>
 #include(iostream)
 using namespace std;
vector<vector<int>> num_combination(int n, int m) {
     vector(vector(int>> a;
         vector(int) c;
          for (int i = n; i != 0; i--) {
              c. push_back(i);
          a. push_back(c);
          return a;
          for (int i = n; i != 0; i-) {
              vector(int) c;
              c. push_back(i);
              a. push_back(c);
          return a;
      else if(n != m && m != 1) {
          for (int i = n;i != m - 1;i--) {
              vector(vector(int))d;
                  \mathbf{d} = \text{num\_combination}(\mathbf{i} - 1, m - 1);
                  int 1en = d. size();
                  for (int j = 0; j < 1en; j++) {
                      vector(int) e = d[j];
                      d[j][0] = i;
                      for (int k = 1; k < d[j].size(); k++) {
                           d[j][k] = e[k-1];
                      int q = d[j].size();
                      d[j]. push_back(e[q - 1]);
              if (i == m) d = num_combination(i, m);
              for (int p = 0;p < d. size();p++) {
                  a. push_back(d[p]);
          return a;
```

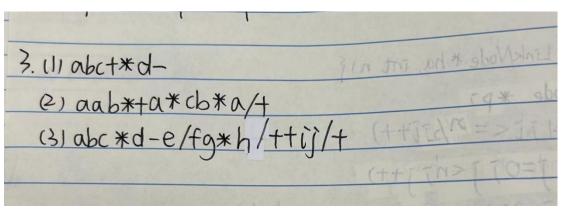
1.

```
∨#include <list>

vbool if_trans(list⟨int⟩ a, list⟨int⟩ b) {
                        if (a. size() != b. size()) return false;
                                              if (c.empty() != 0) {
    c.push(a.front());
                                                                a. pop_front();
                                             while (c. top() != b. front()&& a. empty() == 0) {
    c. push(a. front());
                                                                a. pop_front();
                                              if (c. top() == b. front()) {
                                                              c. pop();
                                                                b. pop_front();
                                                              cout << "no" << end1;
return false;</pre>
                        cout << "yes" << end1;
return true;</pre>
vint main() {
                        list<int>a, b, c;
for (int i = 1;i != 7;i++) {
                                           a. push_back(i);
                         b.\ push\_back\ (3)\ ; b.\ push\_back\ (2)\ ; b.\ push\_back\ (5)\ ; b.\ push\_back\ (6)\ ; b.\ push\_back\ (4)\ ; b.\ push\_back\ (1)\ ; b.\ push\_back\ (2)\ ; b.\ push\_back\ (3)\ ; b.\ push\_back\ (4)\ ; b.\ push\_back\ (4)\ ; b.\ push\_back\ (4)\ ; b.\ push\_back\ (5)\ ; b.\ push\ (5)\ 
                         if_trans(a, b);
                         c. \ push\_back (1) \ ; c. \ push\_back (5) \ ; c. \ push\_back (4) \ ; c. \ push\_back (6) \ ; c. \ push\_back (2) \ ; c. \ push\_back (3) \ ; \\
                          if_trans(a, c);
```

2.





补充题 4 同五/10