Answer to the question no : 01

```
#include <iostream>
using namespace std;

int main() {
    int n, count;


    cin >> n;


    int array[n], visited[n];


    for(int i=0; i<n; i++){
        cin >> array[i];
    }


    for(int i=0; i<n; i++){

        if(visited[i] == 1)
            continue;

        count = 0;
        for(int j=0; j<n; j++){
            if(array[i] == array[j]){

                visited[j] = 1;
                count++;
            }
        }

        cout << array[i] << " => " << count << endl;  }

    return 0;
}
```

Answer to the question no : 02

```
#include <bits/stdc++.h>
using namespace std;

int main()
{
    int a[100], b[100], c[100], k = 0, n1, n2, l, i, j;

    cin >> n1;

    for (i = 0; i < n1; i++)

        cin >> a[i];

    cin >> n2;

    for (i = 0; i < n2; i++)

        cin >> b[i];

    for (i = 0; i < n1; i++)
    {
        for (j = 0; j < n2; j++)
        {
            if (b[j] == a[i])
                break;
        }
        if (j == n2)
        {

            for (l = 0; l < k; l++)
            {
                if (c[l] == a[i])
                    break;
            }
            if (l == k)
            {
```

```
            c[k] = a[i];
            k++;
          }
       }
    }

    for (i = 0; i < k; i++)
    {
       cout << c[i] << " " ;
    }

    return 0;
}
```

Answer to the question no : 03

```
#include<bits/stdc++.h>
using namespace std;
#define endl '\n'
#define ll long long int

void solve() {
    int n; cin>> n;
    int arr[n], brr[n];

    for(int i=0; i<n; i++)
        cin >> arr[i];

    for(int i=0; i<n; i++) {
        cin >> brr[i];
    }


    int pre_arr[n+1];
    pre_arr[0] = arr[0];
    for(int i=1; i<n; i++)
        pre_arr[i] = pre_arr[i-1]+ arr[i];
```

```
    int pre_brr[n+1];
    pre_brr[0] = brr[0];
    for(int i=1; i<n; i++)
        pre_brr[i] = pre_brr[i-1] + brr[i];


    int ans;
    int q; cin>> q;
    while(q--) {
        int l; cin>> l;
        ans = pre_arr[l] - pre_brr[l];
          //cout << ans << endl;
        (ans >= 0) ? cout<< 1 <<" " : cout << 0 << " ";
    }
    cout << endl;

 }


int main()
{

    ios_base::sync_with_stdio(false);
    cin.tie(0); cout.tie(0);

    int t; cin>> t;
    while(t--) {
        solve();
    }

    return 0;
}
```

Answer to the question no : 04

```
#include<bits/stdc++.h>
using namespace std;
#define endl '\n'
#define size 100

// input the matrix...
void input_arr(int arr[][size], int n, int m) {
    for(int i=0; i<n; i++) {
        for(int j=0; j<m; j++) {
            cin >>arr[i][j];
        }
    }
}

// print matrix...
void print_matrix(int arr[][size], int n, int m) {
      for(int i=0; i<n; i++) {
        for(int j=0; j<m; j++) {
            cout << arr[i][j] <<" ";
        }
        cout << endl;
    }
}

void solution(int arr[][size], int n, int m) {
    int freq[size] = {0};
    for(int i=0; i<n; i++) {
        for(int j=0; j<m; j++) {
             //freq[arr[i][j]]++;

            if(freq[arr[i][j]]++ > 0)
                arr[i][j] = -1;
            else
                freq[arr[i][j]]++;
        }

    }
```

```
}

int main()
{
    int arr[size][size], n, m;
    cin >> n >> m;

    input_arr(arr, n,m);
    solution(arr,n, m);
    print_matrix(arr,n, m);

    return 0;
}
```

Answer to the question no : 05

```
#include<iostream>
using namespace std;

int main()
{
    int n;
    cin>>n;
    int a[n][n];
    for(int i=0;i<n;i++){
    for(int j=0;j<n;j++){
    cin>>a[i][j];
    }
    }
    int t=0;


        for(int i=0;i<n;i++){
    for(int j=0;j<n;j++){
    cout<<a[0][j]<<" ";

    }
    cout<<endl ;
```

```
    }
    cout<<t;


   // cout<<sum<<endl;
   for(int j=0;j<(n/2);j++){
    cout<<a[0][j]<<" ";
    t+=a[0][j];
    }
    //cout<<sum;
     for(int j=0;j<n;j++){
    if (j==n/2) continue;
    t+=a[n/2][j];
    }
     for(int j=(n/2)+1;j<n;j++){
    t+=a[n-1][j];
    }
    for(int i=0;i<n;i++){
    t+=a[i][n/2];
    }
    for(int i=0;i<n/2;i++){
    t+=a[i][n-1];
    }
    for(int i=(n/2)+1;i<n;i++){
    t+=a[i][0];
    }
    cout<<t;
}
```

Answer to the question no : 07

```
#include <iostream>
#include <bits/stdc++.h>
using namespace std;
```

```
class Node
{
public:
    int value;
    Node* next;
    Node(int val)
    {
        this->value=val;
        this->next=NULL;
    }
};

void array_input(int a[],int n)
{
    for(int i=0; i<n; i++)
    {
        cin>>a[i];
    }
}

void display(Node* head)
{
    if(head==NULL)
    {
        cout<<"list is empty"<<endl;
    }

    while(head!=NULL)
    {
        cout<<head->value;
        head=head->next;

        if(head!=NULL)
        {
            cout<<" -> ";
        }
    }
    cout<<endl<<endl;
}
```

```
void insertValue(Node* &head,int val)
{
   Node *newNode=new Node(val);
   if(head==NULL)
   {
      head=newNode;
      return;
   }
   Node* temp=head;
   while(temp->next!=NULL)
   {
      temp=temp->next;
   }
   temp->next=newNode;

}

Node *reverseNodesofk(Node *head, int k)
{

   if (!head)
      return NULL;
   Node *current = head;
   Node *next = NULL;
   Node *prev = NULL;
   int count = 0;

   while (current != NULL && count < k)
   {
      next = current->next;
      current->next = prev;
      prev = current;
      current = next;
      count++;
   }

   if (next != NULL)
      head->next = reverseNodesofk(next, k);
```

```
    return prev;
}

int main()
{
    int n;
    cin>>n;

    int a[n];
    array_input(a,n);

    int pos;
    cin>>pos;

    Node* head=NULL;

    for(int i=0; i<n; i++)
    {
        insertValue(head,a[i]);
    }

    head=reverseNodesofk(head,pos);

    display(head);
}
```

Answer to the question no : 09

```
#include <iostream>
using namespace std;
# define endl '\n'


int n,l[100],r[100],lft[101],ls;

void parina(){
```

```
    cin>>n;
    for(int i=1;i<=n;++i){
        cin>>l[i],r[i];
        if(!l[i])lft[++ls]=i;
    }

     for(int i=1,j; i<ls;++i){

        for(j=lft[i]; r[j]!=0; j=r[j]);
        r[j]=lft[i+1];
        l[lft[i+1]]=j;

    }
    for (int i=1; i<=n; ++i){
        cout<<l[i]<<" "<<r[i]<<endl;
    }
}
int main() {
    ios_base::sync_with_stdio(false);
    cin.tie(0);cout.tie(0);
    parina();


    return 0;
}
```