Bai 1

```cpp
#include <iostream>
using namespace std;
void greet (int n)
{

        for (int i = 1; i <= 10; i++)
        {
                cout << n << "*" << i << "=" << n*i << endl;
        }
        cout << "" << endl;
}
int main ()
{
        int n1;
    for (n1=0;n1<=10;n1++)
    {
        cout << "bang cuu chuong: " << n1 << endl;
        greet(n1);
    }
}
```

Bai 2

```cpp
#include <iostream>
using namespace std;
int main ()
```

```cpp
{
    int nam;
    cin >> nam;
    if (nam%4==0 && nam%100 || 0)
    {
        cout << nam << " la nam nhuan" << endl;
    }
    else
    {
        cout << nam << " khong phai la nam nhuan" << endl;
    }
}
```

Bai 3

```cpp
#include <iostream>
#include <math.h>
using namespace std;
bool checksnt(int n)
{
    if (n < 2)
    {
        return false;
    }
    else
    {
        if (n == 2)
```

```cpp
        {
                return true;
        }
        else
        {
            if(n>2)
        {
                for (int i = 2; i < n; i++)
                {
                        if (n%i == 0)
                        {
                                return false;
                                break;
                        }

                }
            }
        }
    }
}
int main()
{
        int n1;
        cin >> n1;
        checksnt(n1);
```

```cpp
        if (checksnt(n1) == true)
        {
                cout << n1 << " " << "la so nguyen to" << endl;
        }
        else
         if (checksnt(n1) == false)
         {
                cout << n1 << " " << "khong phai la so nguyen to";
         }
}
```

Bai 4

```cpp
#include <iostream>
using namespace std;
int main()
{
        int a,i,sum=0;
        cout << "nhap so nguyen duong: ";
        cin >> a;
        for(i=1;i<a;i++)
        {if (a%i==0)
        {
                sum = sum + i;
        }
        }
        if(sum==a)
```

```cpp
	{
		cout << a <<  " la so hoan hao";
	}
	else
	{
		cout << a<< " khong phai la so hoan hao";
	}
	return 0;
}
```

Bai 5

```cpp
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
	int n, i;
	cin >> n;
	while (i = sqrt(n))
	{
		if (sqrt(n) == i)
		{
			cout << n << " la so chinh phuong";
			break;
		}
		cout << n << " khong phai la so chinh phuong";
```

```
                break;
        }
}
```

Bai 6

```cpp
#include <iostream>
using namespace std;
int tinhgiaithua(int n)
{
        int giaithua = 1;
        for (int i = 1; i <= n; i++)

                giaithua *= i;
                return giaithua;


}
int main()
{
        int n1;
        cin >> n1;
        cout << "Giai thua cua " << n1 << " la: " << tinhgiaithua(n1);
                return 0;
}
```

Bai 7

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

```cpp
int fibo(int n)
{
        if (n==0)
                return 0;
        else if(n==1)
                return 1;
        else
                return fibo(n-1)+fibo(n-2);
}
int main ()
{
        int n1;
        cin >> n1;
        while (n1<0);
        cout << fibo(n1);

}
```

Bai 8

```cpp
#include <iostream>
#include <math.h>
using namespace std;
int main()
{
        float a,b,c,d;
        cout << "nhap a,b,c: ";
```

```cpp
cin >> a >> b >>c;
d=b*b-4*a*c;
if (a==0)
{
        cout << "phuong trinh vo nghem";
}
else
{
        if( a==0 && a || 0 )
        {
                cout << "phuong trinh vo nghem";
        }
        else
        {
                if ( d==0 && a || 0)
                {
                        cout << "x" << "=" << -b/(2*a);
                }
                else
                {
                        if (d>0 && a || 0)
                        {
                                cout << "x1" << "=" << ((-b+sqrt(d))/2*a) << endl;
                                cout << "x2" << "=" << ((-b-sqrt(d))/2*a);
                        }
```

```cpp
                              else
                              {
                                      if ( d < 0 && a || 0)
                                      {
                                              cout << "phuong trinh vo nghem";
                                      }
                              }
                      }
              }

       }
}
```

Bai 9

```cpp
#include<iostream>
using namespace std;
int main ()
{
 int n;
 cout << "nhap kich thuoc cua mang: ";
cin >>n;
int a[n];
cout << "nhap mang: ";
for (int i=0;i<n;i++)
  {
    cin>>a[i];
```

```cpp
    }
    cout << "mang duoc xuat la: ";
for (int i=0;i<n;i++)
{
cout << a[i] << " ";
}
return 0;
}
```

Bai 10

```cpp
#include <iostream>
using namespace std;
#define ll long long
ll gcd (ll a, ll b)
{
        if (b==0)
        return a;
        return gcd (b,a%b);
}
ll lcm (ll a,ll b){
        return (a*b)/gcd(b,a%b);
}
int main ()
{
        int n,m;
        cout << "nhap hai so n va m: ";
```

```cpp
    cin >> n >> m;
    cout << "uoc chung lon nhat la: " << gcd (n,m) <<endl;
    cout << "boi chung nho nhat la: " << lcm (n,m);
}
```

Bai 11

```cpp
#include <iostream>
using namespace std;
int main ()
{
    int n;
    int a[n];
    cout << "nhap kich thuoc cua mang: ";
    cin >> n;
    cout << "nhap mang: ";
    for (int i=0; i<n; i++)
    {
        cin >> a[i];
    }
    cout << "mang duoc xuat la: ";
    for (int i= n-1; i>=0 ; i--)
    {
        cout << a[i]<< " ";
    }
}
```

Bai 12

```cpp
#include <iostream>
using namespace std;
int main ()
{
    int n,sum=0;
    int a[n];
    cout << "nhap kich thuoc cua mang: ";
    cin >> n;
    cout << "nhap mang: ";
    for (int i=0; i<n; i++)
    {
        cin >> a[i];
    }
    for (int i= n-1; i>=0 ; i--)
    {
        sum+=a[i];
    }
    cout << "gia tri trung binh cua mang la: " << sum/n << endl;
}
```

Bai 13

```cpp
#include <stdio.h>
#include <iostream>
using namespace std;
int n;
int x;
```

```cpp
int a[100];
void nhapmang(int x[100], int &n)
{

        cout << "nhap so luong phan tu: ";
        cin >> n;
        for (int i=0; i<n; i++)
        {
                cout << "nhap x["<<i<<"]" << " = ";
                cin >> a[i];
        }
}
void xuatmang(int x[100], int n)
{
        cout << "gia tri cua mang la: ";
        for (int i=0; i<n; i++)
        {
                cout << x[i] << " ";
        }
}
int timkiem(int x[100], int n, int tk)
{
        int kq=0;
        for (int i=0; i<n; i++)
        {
```

```cpp
            if (x[i]==tk)
            {
                    return 1;
            }
        }
        return kq;
}
void thuchientimkiem(int x[100], int n)
{
        int tk;
        cout<< "nhap gia tri can tim: ";
        cin >> tk;
        int kq = timkiem(x,n,tk);
        if (kq==1)
        {
                cout << "tim thay ";
        }
        else
        {
                cout << "khong tim thay gia tri "<< n << " trong mang";
        }
}
int main ()
{
        nhapmang(a,n);
```

```cpp
        xuatmang(a,n);
        cout << endl;
        thuchientimkiem(a,n);
}
```

Bai 14

```cpp
#include <iostream>
#include <bits/stdc++.h>
using namespace std;
int main(){
int n,i,a[100],max,min;
cout << "nhap kich thuoc mang: ";
cin >> n;
cout << "nhap mang: "<< endl;
for (i=0;i<n;i++)
{
        cin >> a[i];
}
sort (a,a+n);

cout << "gia tri lon nhat: " << a[n-1] << endl;
cout << "gia tri nho nhat: " << a[0];
return 0;
}
```

Bai 15

```cpp
#include<iostream>
```

```cpp
#include <algorithm>
using namespace std;
int main()
{
    int a;
    cout << "nhap kich thuoc cua mang: ";
    cin >> a;
    int* arr = new int(a);

    cout << "nhap phan tu trong mang: " << endl;
    for (int i = 0; i < a; i++)
    {
        cin >> arr[i];
    }
    sort(arr, arr + a);
    cout << "gia tri lon thu 2 cua mang la: " << arr[a-2] << endl;
    return 0;
}
```
Bai 16
```cpp
#include <iostream>
#include <string>
using namespace std;
int main()
{
    string text;
```

```cpp
        char ch;
        int occur=0;
        cout << "nhap text: ";
        getline(cin, text);
        cout << "nhap tu: ";
        cin >> ch;
        for(int i=0;i<text.length();i++)
        {
                if (text[i] == ch)occur++;
        }
        cout << occur << " ki tu lap lai";
}
```

Bai 17

```cpp
#include <iostream>
#include <string>
#include <algorithm>
using namespace std;
int main()
{
        string text;
        cout << "nhap chu: ";
        getline(cin, text);
        reverse(text.begin(), text.end());
        cout << "chu dao nguoc: " << text << endl;
}
```

Bai 18

```cpp
#include<iostream>
#include<string>
using namespace std;
void abc(string x, string y)
{
        if (x.length() == y.length())
        {
                for (int i = 0; i <= x[i]; i++)
                {
                        x[i] = y[i];
                }


                cout << "2 chuoi giong nhau";


        }
        else
        {
                cout << "2 chuoi khong giong nhau";
        }
}
int main()
{
        string c1, c2;
        cout << "chuoi 1: ";
```

```cpp
        getline(cin, c1);
        cout << "chuoi 2: ";
        getline(cin, c2);
        abc(c1, c2);


}
```

Bai 19

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

string saochep(char s[]) {
    char s1[1000];
    int i = 0;

    while(s[i] != '\0') {
        s1[i] = s[i];
        i++;
    }
    s1[i] = '\0';
    return s1;
}

int main() {
    char s[1000];
```

```cpp
    cout<<"Nhap chuoi: ";
    cin>>s;


    cout<<"Chuoi goc: "<<s<<endl;
    cout<<"Chuoi sao chep: "<<saochep(s)<<endl;
    return 0;
}
```

Bai 20

```cpp
#include <iostream>
using namespace std;
void ghep_string(char *a, const char *src1,const char *src2 ) {
  int i=0,j=0;
  while (src1[i] != '\0') {
    a[i]=src1[i];
    i++;
  }
 while (src2[j] != '\0') {
    a[i+j]=src2[j];
    j++;
}
a[i+j]='\0';
}
int main(){
            int n,x,y;
        cout<<"Nhap MAX SIZE cho chuoi ky tu a va b \n";
```

```cpp
    cout<<"Chuoi a  =";
    cin>>n;
    cout<<"Chuoi src1 =";
    cin>>x;
            cout<<"Chuoi src2 =";
    cin>>y;
            char a[n],src1[x],src2[y];
            cout<<"Nhap chuoi ky tu theo y muon \n ";
    cout<<"Chuoi scr1 =";
    cin>>src1;
    cout<<"Chuoi src2 =";
    cin>>src2;
 ghep_string(a, src1,src2 );
cout<<"Chuoi ket qua la: "<<a;
return 0;
}
*/
```