1.

#include<iostream>

using namespace std;

int main()

{

int a=0,a0,b,i,c=0;

cout<<"请输入您想检验的三位数"<<endl;

while(a<100||a>999)

{

cin>>a;

if(a<100||a>999)

cout<<"您输入的数字可能有误，请检验"<<endl<<"请重新输入"<<endl;

}

a0=a;

for(i=0;i<3;i++)

{

b=a%10;

c+=b\*b\*b;

a=a/10;

}

if(c==a0)

cout<<a0<<"是水仙花数"<<endl;

else

cout<<a0<<"不是水仙花数"<<endl;

}

2.

#include < iostream >

#include < iomanip >

#include < math.h >

using namespace std ;

int main ()

{

int i , j , flag , k = 0 ;

for ( i = 3 ; i <= 100 ; i ++ )

{

flag = 0 ;

for ( j = 2 ; j < i ; j ++ )

{

if ( ! ( i % j ) )

{

flag = 1 ;

break ;

}

}

if ( flag == 0 )

{

k ++ ;

cout << setw ( 3 ) << i ;

if ( k % 8 == 0 )

cout << endl ;

}

}

return 0 ;

}

3.

#include < iostream >

#include < iomanip >

using namespace std ;

int main ()

{

int a = 0 , b = 0 , c1 , c2 ;

while ( a < 3 && b < 3 )

{

cin >> c1 >> c2 ;

switch ( c1 )

{

case 1 :

cout << setw ( 6 ) << "石头" ;

break ;

case 2 :

cout << setw ( 6 ) << "剪刀" ;

break ;

case 3:

cout << setw ( 6 ) << "布" ;

break ;

default:

;

}

switch ( c2 )

{

case 1 :

cout << setw ( 6 ) << "石头" ;

break ;

case 2 :

cout << setw ( 6 ) << "剪刀" ;

break ;

case 3:

cout << setw ( 6 ) << "布" ;

break ;

default:

;

}

cout << endl ;

if ( c1 == c2 )

continue ;

if ( c1 == 1 && c2== 2 || c1 == 2 && c2 == 3 || c1 == 3 && c2 == 1 )

a ++ ;

else

b ++ ;

}

if ( a == 3 )

cout << "小孩1胜" << endl ;

if ( b == 3 )

cout << "小孩2胜" << endl ;

return 0 ;

}

4.

#include < iostream >

using namespace std ;

int main ()

{

int m= 0 , vg= 3 , vr= 9 , sg , sr , s , station = 0 , sleep = 0 , run = 0 ;

cout << "请输入跑道长度" ;

cin >> s ;

while ( sg < s && sr < s )

{

if ( station == 1 )

{

sleep ++ ;

m ++ ;

sg += vg ;

if ( sleep == 30 )

{

station = 0 ;

sleep = 0 ;

}

}

else

{

m ++ ;

run ++ ;

sg += vg ;

sr += vr ;

if ( run == 10 )

{

run = 0 ;

if (sr > sg )

station = 1 ;

}

}

}

if ( sr < sg )

cout << "兔子胜" << endl ;

else if ( sr > sg )

cout << "乌龟胜" << endl ;

else

cout << "平局" << endl ;

return 0 ;

}

5.

#include < iostream >

#include < iomanip >

using namespace std ;

int main ()

{

cout << "可以买" << endl ;

int j , x ;

for ( j = 1 ; j < 8 ; j ++ )

{

for ( x = 1 ; x < 13 ; x ++ )

{

if ( 50 - 4 \* x - 5 \* j <= 0 )

break ;

if ( ! ( ( 50 - 4 \* x - 5 \* j ) % 3 ) )

cout << "西红柿" << x << "斤；韭菜" << j << "斤；黄瓜" << ( 50 - 4 \* x - 5 \* j ) / 3 << "斤" << endl ;

}

}

return 0 ;

}

6.

#include<iostream>

#include<iomanip>

#include<fstream>

using namespace std;

int main()

{

int zs=0,fs=0,l=0,n;

int t;

int i;

ifstream a;

cin>>n;

a.open("c:\\in.txt");

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

{

if(a.eof()==1)

{

cout<<"您输入的值大于文件中的数字个数\n";

break;

}

a>>t;

if(t>0) zs++;

if(t<0) fs++;

if(t==0) l++;

}

cout<<"在这个文件中零的个数为"<<l<<endl;

cout<<"在这个文件中正数的个数为"<<zs<<endl;

cout<<"在这个文件中负数的个数为"<<fs<<endl;

a.close();

}

7.

#include<iostream>

using namespace std;

int main()

{

int i,j;

int a[100];

int b;

cout<<"请输入您想要转化的十进制整数值";

cin>>b;

for(i=0;b>0;b=b/2,i++)

{

a[i]=b%2;

}

cout<<"对应的二进制数字为";

for(j=i-1;j>=0;j--)

cout<<a[j];

}

8.

#include<iostream>

using namespace std;

int main()

{

int i,j,k,l;

int flag,fl;

int sum;

int t;

int f1,f2,f3,f4;

for(i=1;i<=10;i++)

{

for(j=i;j<=13;j++)

{

for(k=j;k<=19;k++)

{

flag=0;

l=40-i-j-k;

if(l<=0)

continue;

for(t=1;t<=40;t++)

{fl=0;

for(f1=-1;f1<=1;f1++)

{for(f2=-1;f2<=1;f2++)

{for(f3=-1;f3<=1;f3++)

{for(f4=-1;f4<=1;f4++)

{

sum=f1\*i+f2\*j+f3\*k+f4\*l;

if(sum==t)

fl=1;

}

}

}

}

if(fl==1)

flag++;

}

if(flag==40)

cout<<i<<endl<<j<<endl<<k<<endl<<l<<endl;

}

}

}

}