**1093: 循环01：最大数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 470  Solved: 336  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1093)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1093)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1093)]

**Description**

**写一个程序，可以输入一批正数(个数<100)，输入0时结束循环，并且输出最大的正数。**

**Sample Input**

**39 28 5 63 18 27 0**

**Sample Output**

**63**

#include<iostream>

using namespace std;

int main()

{

int a,max=-1111000;

while(cin>>a&&a){

if(a>max)

max=a;

}

cout<<max;

return 0;

}

**1094: 循环02：素数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 499  Solved: 327  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1094)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1094)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1094)]

**Description**

**输入正数n，判断n是否为素数。若为素数则输出1，否则输出0。（提示：素数是指只可以被1和其本身整除的正数（1除外））**

**输入10输出0**

**输入7输出1**

**Input**

**Output**

**Sample Input**

**7**

**Sample Output**

**1**

#include<iostream>

#include<cmath>

using namespace std;

int main()

{

    int i,n,temp;

    cin>>n;

    temp=sqrt(n);

    for(i=2;i<=temp;i++)

        if(n%i==0) {

                cout<<0;

                break;

        }

        if(n<2) cout<<0;

        else if(i>temp||n==2) cout<<1;

    return 0;

}

**1095: 循环03：数列求和**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 435  Solved: 322  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1095)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1095)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1095)]

**Description**

**输入一个正整数n，计算前n项之和：1+1/4+1/7+1/10..+1/(3\*n-2)。**

**输入5输出1.56978**

**输入4输出1.49286**

**Input**

**Output**

**Sample Input**

**5**

**Sample Output**

**1.56978**

#include<iostream>

using namespace std;

int main()

{

    int n,i;

    double c;

    cin>>n;

    for(i=1;i<=n;i++)

        c+=1.0/(3\*i-2);

    cout<<c;

    return 0;

}

**1096: 循环04：西瓜卖几天**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 427  Solved: 333  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1096)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1096)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1096)]

**Description**

**n个西瓜，第一天卖一半多两个，以后每天卖剩下的一半多两个，问几天以后能卖完？**

**说明：当西瓜个数为奇数时，卖一半为一半的整数，如当西瓜个数为5时，卖一半为卖2个。**

**输入：西瓜个数，输出：天数**

**输入10输出2**

**输入50输出4**

**Input**

**Output**

**Sample Input**

**50**

**Sample Output**

**4**

#include<iostream>

using namespace std;

int main()

{

    int n,i;

    cin>>n;

    for(i=0;n>=0;i++)

        n = n/2-2;

    cout<<i;

    return 0;

}

**1097: 循环05：成绩判定**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 613  Solved: 315  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1097)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1097)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1097)]

**Description**

**输入一个正整数repeat (0<repeat<10)，做repeat次下列运算：**

**输入一个学生的数学成绩，如果它低于60，输出“Fail”，否则，输出“Pass”。**

**Input**

**Output**

**Sample Input**

**5 35 68 49 94 88**

**Sample Output**

**Fail**

**Pass**

**Fail**

**Pass**

**Pass**

#include<iostream>

using namespace std;

int main()

{

int n,i,a;

cin>>n;

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

{

cin>>a;

if(a>=60)

cout<<"Pass";

else cout<<"Fail";

cout<<endl;

}

return 0;

}

**1098: 循环06：数列求和**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 429  Solved: 301  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1098)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1098)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1098)]

**Description**

**输入1 个正整数 n(n<=100)，计算并输出1＋1/2＋1/3＋……＋1/n 。**

**输入5输出2.28333**

**输入4输出2.08333**

**Input**

**Output**

**Sample Input**

**4**

**Sample Output**

**2.08333**

#include<iostream>

using namespace std;

int main()

{

    int n,i;

    double c=0;

    cin>>n;

    for(i=1;i<=n;i++)

    {

       c+=1.0/i;

    }

    cout<<c;

    return 0;

}

**1099: 循环07：水仙花数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 551  Solved: 302  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1099)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1099)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1099)]

**Description**

**打印出所有的 "水仙花数 "，所谓 "水仙花数 "是指一个三位数，其各位数字立方和等于该**

**数本身。例如：153是一个 "水仙花数 "，因为153=1的三次方＋5的三次方＋3的三次方。**

**输入:无**

**输出:153 370 371 407**

#include<iostream>

using namespace std;

int main()

{

    int n,i;

    for(i=100;i<1000;i++){

        int c=0,temp=i;

      while(temp)

       {

          c+=(temp%10)\*(temp%10)\*(temp%10);

          temp/=10;

       }

       if(i==c) cout<<i<<" ";

    }

    return 0;

}

**1100: 循环08：数位之和**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 387  Solved: 315  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1100)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1100)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1100)]

**Description**

**输入一个正整数，输出其各个数位上的数字之和。**

**输入 1234输出10**

**输入 12534输出15**

**Input**

**Output**

**Sample Input**

**1234**

**Sample Output**

**10**

#include<iostream>

#include<cmath>

using namespace std;

int main()

{

int n,i=0;

cin>>n;

while(n){

i+=n%10;

n/=10;

}

cout<<i;

return 0;

}

**1101: 循环09：奇数和**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 374  Solved: 314  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1101)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1101)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1101)]

**Description**

**读入一批正整数(以零为结束标志)，求其中的奇数和。**

**输入32 33 50 34 65 67 0 输出165**

**输入13 15 17 30 35 0 输出80**

**Input**

**Output**

**Sample Input**

**32 33 50 34 65 67 0**

**Sample Output**

**165**

#include<iostream>

using namespace std;

int main()

{

    int n,c=0;

    while(cin>>n&&n)

    if(n%2) c+=n;

    cout<<c;

    return 0;

}

**1102: 循环10：求和**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 363  Solved: 304  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1102)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1102)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1102)]

**Description**

**从键盘输入若干正数，对其求和并输出，遇到负数则终止输入。**

**输入32 33 50 34 65 67 -1 输出281**

**输入13 15 17 30 35 -2 输出110**

**Input**

**Output**

**Sample Input**

**32 33 50 34 65 67 -1**

**Sample Output**

**281**

#include<iostream>

using namespace std;

int main()

{

    int n,c=0;

    while(cin>>n&&n>0)

      c+=n;

    cout<<c;

    return 0;

}

**1103: 循环11：特殊数值**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 451  Solved: 312  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1103)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1103)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1103)]

**Description**

**已知四位数3025有一个特殊性质: 它的前两位数字30和后两位数字25的和是 55, 而55的平方刚好等于该数(55\*55=3025). 试编一程序打印所有具有这种性质的四位数.**

**输入无 输出2025 3025 9801**

**Input**

**Output**

**Sample Output**

**2025 3025 9801**

#include<iostream>

#include<cmath>

using namespace std;

int main()

{

    int i;

    double a,b;

    for(i=1000;i<10000;i++)

    {

        a=i/100;

        b=i%100;

        if(pow(a+b,2)==i) cout<<i<<" ";

    }

    return 0;

}

**1104: 循环12：征税**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 651  Solved: 300  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1104)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1104)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1104)]

**Description**

**税务部门征收所的税，规定如下：**

**1）收入在1000元以内（含1000），免征；**

**2）收入在1000~3000元以内（含3000），纳税额为收入的3%；**

**3）收入超过3000~5000元以内（含5000），纳税为收入的4%；**

**4）当收入超过5000元时，纳税为收入的6%。**

**请根据以上关系，输入收入m，输出应缴纳的税收tax。**

**Input**

**第一个整数n表示后续有n个收入**

**Output**

**每个收入对应的纳税额**

**Sample Input**

**4 900 2000 4000 6000**

**Sample Output**

**0 60 160 360**

#include<iostream>

using namespace std;

int main()

{

int n,i;

double a,b;

cin>>n;

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

cin>>a;

if(a<=1000)

cout<<0<<" ";

else

if(a<=3000)

cout<<a\*0.03<<" ";

else

if(a<=5000)

cout<<a\*0.04<<" ";

else

cout<<a\*0.06<<" ";

}

return 0;

}

**1105: 循环13：因数个数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 367  Solved: 310  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1105)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1105)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1105)]

**Description**

**给定一个正整数n，求它的因数个数。如6的因数为1、2、3、6，则因数个数为4。**

**输入12 输出6**

**Input**

**Output**

**Sample Input**

**12**

**Sample Output**

**6**

#include<iostream>

using namespace std;

int main()

{

    int n,c=0,i;

    cin>>n;

    for(i=1;i<=n;i++)

        if(n%i==0)c++;

        cout<<c;

    return 0;

}

**1106: 循环14：最大公约数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 374  Solved: 303  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1106)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1106)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1106)]

**Description**

**键盘输入两个正整数m，n，求出他们的最大公约数。**

**输入20 15 输出5**

**Input**

**Output**

**Sample Input**

**20 15**

**Sample Output**

**5**

#include<iostream>

using namespace std;

int main()

{

    int m,n,c=0,i;

    cin>>m>>n;

    for(i=1;i<=n;i++)

        if(n%i==0&&m%i==0)

            c=i;

        cout<<c;

    return 0;

}

**1107: 循环15：斐波那契数列**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 448  Solved: 298  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1107)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1107)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1107)]

**Description**

**判断第n个斐波那契数列能否被3整除 给定斐波那契数列为：F(0)=1, F(1)=1, F(n)=F(n-1)+F(n-2)(n>=2),编写一个程序，输入n(n>1)，如果F(n)能被3整除则输出一个“yes”，否则输出一个“no”。**

**输入7输出yes**

**输入6输出no**

**Input**

**Output**

**Sample Input**

**6**

**Sample Output**

**No**

#include<iostream>

using namespace std;

int main()

{

int n,i,a[10000]={1,1};

cin>>n;

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

a[i]=a[i-1]+a[i-2];

if(a[n]%3)

cout<<"no";

else

cout<<"yes";

return 0;

}

**1108: 循环16：计算奇偶数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 380  Solved: 304  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1108)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1108)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1108)]

**Description**

**求N（<=100）个数中奇数的平方和与偶数的立方和。**

**Input**

**输入格式为第一个数为N，后面接着N个整数。**

**Output**

**输出的平方和与立方和以空格隔开**

**Sample Input**

**3 5 8 9**

**Sample Output**

**106 512**

#include<iostream>

using namespace std;

int main()

{

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

cin>>n;

while(n--){

cin>>a;

if(a%2)

c1+=a\*a;

else c2+=a\*a\*a;

}

cout<<c1<<" "<<c2;

return 0;

}

**1109: 循环17：数位计算**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 347  Solved: 297  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1109)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1109)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1109)]

**Description**

**对于输入的一个数字，请计算它的各个位上的数字为偶数的和。例如：1234，结果为6=2+4。**

**输入4321输出6**

**输入51289输出10**

**Input**

**Output**

**Sample Input**

**51289**

**Sample Output**

**10**

#include<iostream>

using namespace std;

int main()

{

    int n,c=0;

    cin>>n;

    while(n){

        if(n%10%2==0) c+=n%10;

        n/=10;

    }

    cout<<c;

    return 0;

}

**1110: 循环18：数根**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 404  Solved: 308  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1110)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1110)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1110)]

**Description**

**对于一个正整数n，我们将它的各个位相加得到一个新的数字，如果这个数字是一位数，我们称之为n的数根，否则重复处理直到它成为一个一位数，这个一位数也算是n的数根。例如：考虑24，2+4=6，6就是24的数根。考虑39，3+9=12，1+2=3，3就是39的数根。请编写程序，计算n的数根。**

**输入189输出9**

**Input**

**Output**

**Sample Input**

**189**

**Sample Output**

**9**

#include<iostream>

using namespace std;

int main()

{

    int n,c;

    cin>>n;

    while(n>9){

            c=0;

        while(n){

            c+=n%10;

            n/=10;

        }

        n=c;

    }

    cout<<n;

    return 0;

}

**1111: 循环19：平均成绩**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 372  Solved: 296  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1111)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1111)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1111)]

**Description**

**假设有一个班级，n名同学选修了C++语言程序设计，要求统计该门课的平均成绩。输入格式：第一个数位学生人数n，后面接着n个成绩，输出平均成绩。**

**输入：5 80 90 88 96 70 输出84.8**

**Input**

**Output**

**Sample Input**

**5 80 90 88 96 70**

**Sample Output**

**84.8**

#include<iostream>

using namespace std;

int main()

{

    int n;

    double a,c=0;

    cin>>n;

    int i=n;

    while(i--){

        cin>>a;

        c+=a;

    }

    cout<<c/n;

    return 0;

}

**1112: 循环20：幂函数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 413  Solved: 301  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1112)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1112)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1112)]

**Description**

**输入一个正整数repeat (0<repeat<10)，做repeat次下列运算：读入1 个正实数x和1个正整数 n(n<=50)，计算并输出x的n次幂。**

**输入3 2 5 3 4 5 3输出32 81 125**

**Input**

**Output**

**Sample Input**

**3 2 5 3 4 5 3**

**Sample Output**

**32 81 125**

#include<iostream>

using namespace std;

int main()

{

    int repeat,n,x,c;

    cin>>repeat;

    while(repeat--){

        cin>>x>>n;

        c=1;

        while(n--){

            c\*=x;

        }

        cout<<c<<" ";

    }

    return 0;

}

**1114: 循环21：计数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 355  Solved: 283  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1114)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1114)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1114)]

**Description**

**输入一组整数，以0结束，统计数据个数（不含0）及最大值。**

**Input**

**Output**

**Sample Input**

**1 2 3 456 4 3 5 0**

**Sample Output**

**7 456**

#include<iostream>

using namespace std;

int main()

{

int num,i=0,c=-1000000;

while(cin>>num&& num){

i++;

if(num>c) c=num;

}

cout<<i<<" "<<c;

return 0;

}

**1115: 循环22：素数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 516  Solved: 281  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1115)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1115)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1115)]

**Description**

**输入一个正整数n，输出[2,n]之间所有的素数及素数个数。**

**Input**

**Output**

**Sample Input**

**10**

**Sample Output**

**2 3 5 7**

**4**

#include<iostream>

using namespace std;

int main()

{

int n,i,j,c=0;

cin>>n;

for(i=2;i<=n;i++){

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

if(i%j==0) break;

if(j==i) {

c++;

cout<<i<<" ";

}

}

cout<<endl<<c;

return 0;

}

**1116: 循环23：完数**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 340  Solved: 275  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1116)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1116)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1116)]

**Description**

**输入一个正整数n，输出[1,n]之间的所有完数。**

**完数的定义：除自身外的因子之和等于它本身。**

**例如：6=1+2+3，因此6是完数。**

**Input**

**Output**

**Sample Input**

**1000**

**Sample Output**

**6 28 496**

#include<iostream>

using namespace std;

int main()

{

int n,i,j,c;

cin>>n;

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

c=0;

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

if(i%j==0) c+=j;

if(c==i) cout<<i<<" ";

}

return 0;

}

**1123: 循环（补1）**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 213  Solved: 170  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1123)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1123)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1123)]

**Description**

**输入若干个整数，以0结束，计算这些非0数据的平均值。**

**Input**

**Output**

**Sample Input**

**2 4 5 3 0**

**Sample Output**

**3.5**

#include<iostream>

using namespace std;

int main()

{

    int x,n=0,c=0;

    while(cin>>x&&x){

         n++;

         c+=x;

    }

    cout<<c\*1.0/n;

    return 0;

}

**1124: 循环（补2）**

Time Limit: 1 Sec  Memory Limit: 128 MB  
Submit: 272  Solved: 155  
[[Submit](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/submitpage.php?id=1124)][[Status](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/problemstatus.php?id=1124)][[Web Board](http://221.203.21.203:8000/rewriter/USTL/http/489629629022/OnlineJudge/bbs.php?pid=1124)]

**Description**

**输入一组正整数，以0结束，找出其中素数的最大值。例如输入：3 6 7 10 0，最大素数为7，输出结果为7，若输入数据中无素数，则输出no**

**Input**

**Output**

**Sample Input**

**3 6 7 10 0**

**Sample Output**

**7**

#include<iostream>

using namespace std;

int main()

{

    int x,i,max=0;

    while(cin>>x&&x){

         for(i=2;i<x;i++)

            if(x%i==0) break;

         if(i==x&&max<x) max=x;

    }

    if(max) cout<<max;

    else cout<<"no";

    return 0;

}