```
::::::::::::::
ex0.cc
::::::::::::::
#include<iostream>
using namespace std;
main()
{
        int i;
        int j;
        double k;
        i=1; j=2; k=5.0;

        if(i*2>j)
                k=1.0;
        else
                j=3;

        if(k<2)
                k=4.0;

        cout << "i= " << i << endl;
        cout << "k= " << k << endl;
        cout << "j= " << j << endl;
}
::::::::::::::
ex0b.cc
::::::::::::::
#include<iostream>
using namespace std;

main()
{
        int i;
        int j;
        double k;

        i=1; j=2; k=5.0;

        i=i+3;
        k=k/j;
        j=(k+1)+3/2;

        cout << "i= " << i << endl;
        cout << "k= " << k << endl;
        cout << "j= " << j << endl;
}
::::::::::::::
ex1.cc
::::::::::::::
#include<iostream>
using namespace std;

main()
{
        int i,j;
        i=0;
        j=0;

        while(i<4)
        {
                j=j+i;
                i=i+1;
        }
        cout << "j= " << j << endl;
        cout << "i= " << i << endl;
}
::::::::::::::
ex2.cc
::::::::::::::
#include<iostream>
```

```
using namespace std;

main()
{
        int i=0;
        int j=0;
        double k=1.2;

        while(i<4)
        {
                if(i>2)
                {
                        j=j+i;
                        k=k+j;
                }
                i=i+1;
        }
        cout << "j= " << j << endl;
        cout << "i= " << i << endl;
        cout << "k= " << k << endl;
}
::::::::::::::
ex3.cc
::::::::::::::
#include<iostream>
using namespace std;

main()
{
        int count, i=0, total=0;

        cin >> count;
        while(i<count)
        {
                total=total+i;
                i=i+1;
        }

        cout << "total= " << total << endl;
        cout << "i= " << i << endl;
}
::::::::::::::
mc.cc
::::::::::::::
#include<iostream>
#include<cstdlib>

using namespace std;
main(int argc, char * argv[])
{
        const int trials=9000000;
        double x1, y1;
        double distance;
        int count=0; // number of hits
        int i=0;
        double value;

        while(i<trials)
        {
                x1=(1.0)*rand()/RAND_MAX;  // rand() generates an int [0.0, RAND_MAX]
                y1=(1.0)*rand()/RAND_MAX;
                distance=x1*x1+y1*y1; // Square of distance from home.
                if(distance<1)
                        count++;
                i++;
        }
        value=(4.0)*count/trials;
        cout << "count= " << count << endl;
        cout << "value= " << value << endl;
}
```