

```

#include<iostream.h>

double fcnx(double);
double GetMax(double * yPtr,double (*fcnPtr)(double) );

int main()
{
    double x = -1;
    cout << "Enter a number (enter 0 to stop): ";
    cin >> x;
    while (x != 0)
    {
        double y = GetMax(&x,fcnPtr);
        cout << "x is: " << x << endl;
        cout << "fcn is: " << fcnPtr(x) << endl;
        cout << "max is: " << y << endl;
        cout << "Enter a number (enter 0 to stop): ";
        cin >> x;
    }

    return 0;
}

double fcnx(double x)
{
    return x*x-3;
}

double GetMax(double * yPtr,double (*fcnPtr)(double))
{
    return (*fcnPtr)(*yPtr) > *yPtr ? (*fcnPtr)(*yPtr) : *yPtr;
}

```