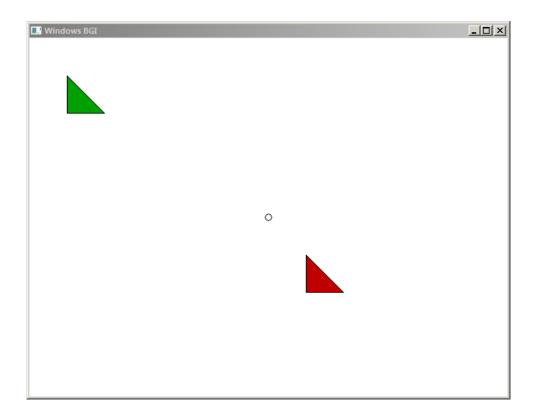
```
#include <graphics.h>
#include <stdio.h>
#include <stdlib.h>
#include <math.h>
void translate( int *, int, int, int);
void translate( int poly[], int vertex, int dx, int dy )
{
         int i;
         for(i=0; i<vertex; i++)</pre>
         {
                   poly[2*i] += dx;
                   poly[2*i+1] += dy;
         }
int main()
{
         int poly[20], vertex, dx, dy, i;
         initwindow(640, 480, "translation");
         printf( "Number of vertex: " );
scanf( "%d", &vertex );
         for(i=0; i < vertex; i++)
         {
                   printf( "Enter vertex (x%d,y%d) : ", i , i );
                   scanf( "%d %d", &poly[2*i], &poly[2*i+1] );
         }
         poly[2*i] = poly[0];
poly[2*i+1] = poly[1];
         vertex += 1;
         printf( "Enter dx: ");
scanf( "%d", &dx);
         printf( "Enter dy: ");
scanf( "%d", &dy);
         setbkcolor(WHITE);
         setcolor(BLACK);
         drawpoly( vertex, poly );
         setfillstyle(1,GREEN);
         fillpoly( vertex, poly );
         translate(poly,vertex,dx,dy);
         setcolor(BLACK);
         drawpoly( vertex, poly );
         setfillstyle(1,RED);
         fillpoly( vertex, poly );
         setcolor(BLACK);
         circle(dx, dy, 5);
         while( !kbhit() );
         return EXIT_SUCCESS;
}
```



Number of vertex: 3
Enter vertex (x0,y0) : 50 50
Enter vertex (x1,y1) : 50 100
Enter vertex (x2,y2) : 100 100
Enter dx: 320
Enter dy: 240