```
#include<stdio.h>
#include<graphics.h>
void findNewCoordinate(int s[][2], int p[][1])
    int temp[2][1] = \{0\};
    for (int i = 0; i < 2; i++)
        for (int j = 0; j < 1; j++)
            for (int k = 0; k < 2; k++)
                temp[i][j] += (s[i][k] * p[k][j]);
    p[0][0] = temp[0][0];
    p[1][0] = temp[1][0];
void scale(int x[], int y[], int sx, int sy)
    line(x[0], y[0], x[1], y[1]);
    line(x[1], y[1], x[2], y[2]);
    line(x[2], y[2], x[0], y[0]);
    int s[2][2] = \{ sx, 0, 0, sy \};
    int p[2][1];
    for (int i = 0; i < 3; i++)
        p[0][0] = x[i];
        p[1][0] = y[i];
        findNewCoordinate(s, p);
        x[i] = p[0][0];
        y[i] = p[1][0];
    }
    line(x[0], y[0], x[1], y[1]);
    line(x[1], y[1], x[2], y[2]);
    line(x[2], y[2], x[0], y[0]);
int main()
    int x[] = { 100, 200, 300 };
    int y[] = { 200, 100, 200 };
    int sx = 2, sy = 2;
    int gd, gm;
    detectgraph(&gd, &gm);
    initgraph(&gd, &gm," ");
    scale(x, y, sx, sy);
    getch();
    return 0;
```