```
#include <GL/gl.h>
#include <GL/glut.h>
#include <stdlib.h>
#include<stdio.h>
void display(void)
{
  glClear(GL_COLOR_BUFFER_BIT);
  glColor3f(1.0, 0.0, 1.0);
  int x0 = 0, y0 = 0;
  int x1 = 200, y1 = 200;
  int dx = x1 - x0;
  int dy = y1 - y0;
  int steps = abs(dx) > abs(dy)? abs(dx): abs(dy);
  float x_inc = dx / (float) steps;
  float y_inc = dy / (float) steps;
  float x = x0;
  float y = y0;
  glBegin(GL_POINTS);
    for (int i = 0; i \le steps; i++) {
       glVertex2f(x, y);
```

```
x += x_inc;
      y += y_inc;
    }
  glEnd();
  glBegin(GL_QUADS);
  glColor3f(0,0,1);
  glVertex2d(20,120);
  glVertex2d(100,120);
  glVertex2d(100,200);
  glVertex2d(20,200);
    glEnd();
  glBegin(GL_TRIANGLES);
  glColor3f(0,0,1);
  glVertex2d(110,20);
  glVertex2d(190,20);
  glVertex2d(150,60);
    glEnd();
  glutSwapBuffers();
void init(void)
  glClearColor(1.0, 1.0, 1.0, 1.0);
  glMatrixMode(GL_PROJECTION);
```

}

```
glLoadIdentity();
  glOrtho(0.0, 200.0, 0.0, 200.0, -200.0, 200.0);
}
int main(int argc, char** argv)
  glutInit(&argc, argv);
  glutInitDisplayMode(GLUT_DOUBLE | GLUT_RGB);
  glutInitWindowSize(300, 300);
  glutInitWindowPosition(100, 100);
  glutCreateWindow("AAKA-231");
  init();
  glutDisplayFunc(display);
  glutMainLoop();
  return 0;
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```