```
#include<iostream>
#include <GLFW/glfw3.h>
GLfloat m = 0.0;
GLfloat c = (-0 - m * -1); // constant
GLfloat j = -0;
GLfloat i = 0;
static float rotAngle = 0.;
void init() {
void desenha() {
   glEnable(GL POINT SMOOTH);
   glEnable(GL BLEND);
   glBlendFunc(GL SRC ALPHA, GL ONE MINUS SRC ALPHA);
   glHint(GL POINT SMOOTH HINT, GL FASTEST);
   glLineWidth(1.5);
   glClearColor(0.0, 0.0, 0.0, 0.0);
   glClear(GL COLOR BUFFER BIT);
   glEnable(GLUT MULTISAMPLE);
   glColor3f(1, 0, 0);
   glPointSize(5);
   GLfloat x = 0.0;
   glBegin(GL POINTS);
    for (double i = -1; i < 1; i += 0.001) {
       glVertex2f(i, j);
   glEnd();
   glFlush();
```

```
void reshape(int w, int h)
   glViewport(0, 0, w, h);
   glMatrixMode(GL PROJECTION);
   glLoadIdentity();
       gluOrtho2D(-1.0, 1.0,
           -1.0 * (GLfloat)h / (GLfloat)w, 1.0 * (GLfloat)h /
(GLfloat)w);
       gluOrtho2D(-1.0 * (GLfloat)w / (GLfloat)h,
            1.0 * (GLfloat) w / (GLfloat) h, -1.0, 1.0);
   glMatrixMode(GL MODELVIEW);
   glLoadIdentity();
void keyboard(unsigned char key, int x, int y)
   switch (key) {
   case 'r':
   case 'R':
       rotAngle += 20.;
       if (rotAngle >= 360.) rotAngle = 0.;
       glutPostRedisplay();
   case 'a':
       glDisable(GL POINT SMOOTH);
       glDisable(GL_BLEND);
   case 27: /* Escape Key */
       exit(0);
   default:
int main(int argc, char** argv) {
   glutInit(&argc, argv);
   glutInitDisplayMode(GLUT SINGLE | GLUT RGB);
   glutInitWindowSize(800, 500);
   glutInitWindowPosition(50, 50);
```

```
init();
glutReshapeFunc(reshape);
glutCreateWindow("Pontos");
glutDisplayFunc(desenha);
glutKeyboardFunc(keyboard);
glutMainLoop();
return 0;
}
```