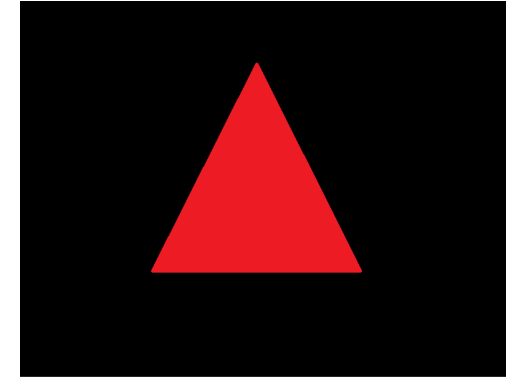


Assignment

- Develop an optimized algorithm to render a triangle without using any graphics library.

OR

- Develop a piglit test case to render a triangle using fragment shader.
 - Send vertex data to draw a full screen black colored rectangle.
For example: `piglit_width = 400, piglit_height = 200`
 - Draw a red triangle inside the black rectangle
screen coordinates = `{ {200, 180}, {100, 40}, {300, 40} }`
 - Use `gl_FragCoord.x` and `gl_FragCoord.y` in fragment shader



- References:

https://gitlab.freedesktop.org/mesa/piglit/-/blob/master/tests/spec/glsl-1.10/execution/discard/glsl-fs-discard-01.shader_test

<https://gitlab.freedesktop.org/mesa/piglit/-/blob/master/tests/spec/glsl-1.10/execution/discard/glsl-fs-discard-02.c>

- Piglit command: `cd piglit; ./bin/shader_runner draw_triangle.shader_test`