Van Euclid Dy

Raytracing write up

CS4600

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Photo above is the body of my trace function. The first for loop looks for the sphere that is closest to the ray origin. The second nested for loops is the ray to light portion of trace that calculates the light contribution to pixel colors. The long line is the diffuse and Phong color contribution calculation where it just uses the formulas presented in class. Otherwise the code is pretty straightforward, we loop through each light firing rays and then determine if any spheres intersect that ray. Eclipse determines if the ray is eclipsed by another sphere and if so we contribute zero and vice versa.