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Computer Graphics

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Program 5 Report

I found this program fairly simple and easy to do. There weren’t many lessons learn as it mostly just converting the c code to javascript, than using the input values in the algorithm and then drawing them on the canvas. I only faced a couple of minor issues. One issue was showing the entire line on the canvas and not only start and end points of the line or sometimes only some of the points. I figured it out that it was because I wasn’t parsing the value from the input. I have good amount of minor bugs in the program. Not sure if this is a bug or not, but sometimes the midpoint is the same as the dda line. This may be cause I don’t think my code for midpoint line handles for all slopes. Sometimes the midpoint line will only print if its button is pressed first than dda. I also had issues making the curves. I kept on getting an error with my input values as I assigned them as arrays at first to into the parameters. But then I created another function that separates the x and y values as separate x and y values. This fixed the issue and the curves printed on the canvas. When using html canvas properties to compare, the line for dda is the same as with using the properties. Using the properties, the circle was also the same as using the algorithm. I wasn’t if the way I used the properties to draw the midpoint line was correct and I wasn’t sure how to use the properties to do the hermite curve and b-spline curve. My program also doesn’t handle all quadrants. Something extra that I added, is a button that clears the canvas without having to the reload the page.