

Assignment 6 report

Corrine Tseng

This assignment involved developing a C++ program to solve a system of linear equations using matrix and vector operations. The program generated random coefficients and constants, solved the equations using Gaussian elimination, and verified the solutions. Key steps included setting up the development environment, implementing matrix and vector classes, generating random data, and handling edge cases and numerical stability issues. Challenges such as debugging and ensuring accurate floating-point calculations were addressed. Testing was conducted with matrices of various sizes to ensure robustness. Overall, this assignment enhanced my understanding of numerical methods, matrix operations, and the importance of thorough testing in software development.