Project 3

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5/2/2017

Abstract

This project explored solving differential equations, specifically linear second order equations, by using a couple of different methods which include LU Decomposition, Gauss Forward and Backward Substitution: General algorithm

- 1 Introduction
- 2 Description
- 2.1 LU Decomposition Solver
- 2.2 Tridiagonal Solver: General Gauss Elimination
- 3 Results
- 3.1 Accuracy
- 3.2 Gauss General:
- 3.3 LU Decomposition:
- 3.4 Speed of Execution