Riley Payung

CDS 251

02/23/2020

Assignment 4.2

5th System

The fifth system, done on paper results in a determinant of 0; however, in fortran, it resulted in a determinant of -3.43322754E-05, which may be due to the fact that when I looked at the 5th matrix in data2.txt, there is a single number (-2.0) that I think the program believes is an integer, leaving us with a precision error. Since the number is considered an integer instead of a real, the rational part of the multiplication is truncated in some of the determinant parts. (At least that is what I think is happening)

Results:

38.0000000

7.00000000

No Solution

-433.963989

-105.441994

-93.2330017

0.00000000

0.0000000

0.00000000

281.291992

-115.368004

-79.2660065

3.00000000

2.00000000

-1.00000000