A close-up of a text

Description automatically generated

1. Creating the program letting it solve the system of equations we get:

A white background with black text

Description automatically generated

So Naïve Gaussian elimination successfully solves this system even for large values, as we have no small pivot elements that lead to large multipliers and large roundoff errors.

1. Running the Naïve Gauss program on the Hilbert Matrix we have:

A black text with black letters

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The errors are significantly larger, probably because the matrix is ill-conditioned (large condition number)

Code:

A screenshot of a computer

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