Team effort distribution report

**Assignment number:** #1

**Assignment Team number:** #15

**GitHub URL:** https://github.com/VictorianHues/ScientificComputing\_Set1

**Brief description of work distribution (max. 200 words)**

Mathematical processes such as discretization and discussion of numerical implementation and results were completed during group meetings as part of the preparation for code implementation.

Victoria was primarily responsible for the Vibrating Strings and Time Dependent Diffusion equation code alongside exploring parallelization implementations for diffusion simulations.

Karolina was primarily responsible in implementing the iterative Jacobi solver alongside general object sinks within the diffusion grids and comparison to analytical solution.

Paul was primarily responsible for the iterative SOR/Gauss-Seidel solver and subsequent experiment design for Omega optimization and the measure of convergence over iterations. Also implemented insulated objects in the diffusion grid.

**Git fame distribution of the repository**

Date and time: 21 February 2025

Output image of *git fame*:

