1. For the written component of this part, compare the results of the two methods above,

and discuss the number of iterations required to obtain the desired precision.

To get a desired precision, it took Jacobi 1 iteration and Gauss-Seidel 2 iterations.

1. Is the length of the initial stream n important? With respect to number of iterations? No.
2. Does n have an effect on the number of iterations required to achieve the error tolerance? No. It does not appear to be important. The number of iterations does not increase for 5, 10, 15, 20, or 25. The iterations remain consistently the same.