# Assignment 8

For the linear elastostatic setting write an assembly routine for $\underset{\sim}{K}$. For the required form for $\underset{\sim}{D}$ refer to the Hughes book.

Now that you can compute the residual $\underset{\sim}{R}$ and $\underset{\sim}{K}$ complete your implementation of the Newton-Raphson driver algorithm.

Test that your implementation works correctly for 1D, 2D, and 3D for the following "patch tests" (only shown for 2D):