Homework 8, due: 04/07

0. Before you start:

   - PLEASE make sure you send me the code via email (you do not need to print any code).

   - Print (or email a pdf) with your output (pictures, text), explanations, and drawings.

1. step-40

   - Work through step-40 and make sure you understand it.

   - Add output to show the number of locally owned cells and locally owned dofs on each processor. Report the output when running with a) 3 ranks and b) 32 ranks (2*16 cores) on palmetto.

   - Create pictures of the solution (run with 3 ranks) where the mesh, the cell distribution between processes, and the solution (using elevate) is visualized. Pick a refinement cycle that looks good (maybe 3 or 4).