Fall 2017 Storm Activity:

This storm activity uses the methods we developed in the Vpython tutorial Lab. Use those materials and develop a program that calculates the electric field somewhere on the x axis, produced of a set of N point charges arranged symmetrically on the y-axis. The problem is described in Notes posted on the Course website (entitled “Continuum Approximation”). Those notes propose a total of 12 discrete calculations, and this is sufficient.

A bonus approach is to show a graph of the magnitude of $\vec{E}$ as a function of x calculated from the continuum equation and the discrete equation for values of N: 1, 11, 31, 101.