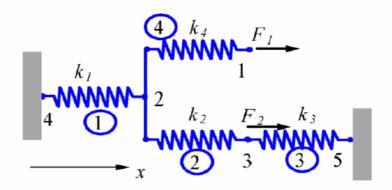Problem: For the spring system with arbitrarily numbered nodes and elements, as shown above, find the global stiffness matrix.