memb\_id

load\_dof

MD\_load\_dof(concen, nnodes)

MD\_member\_id(nnodes, nele, ends)

**Mastan Input Structure Design**

**Number DoFs for each element.** memb\_id (i, 1:6) form the DoFs for the first node of the element I and memb\_id(i,7:12) correspond to the Dofs of the second node of element i

**Number DoFs for each node.** nnodesDOF(i,j) = DoF j for Node i

**Reshape the concentrate load matrix into a column array**

**Function ud\_3d1el.m**

**Rest of the analysis and post-processing**

**Thick Arrows => Function Calls**

**Dotted Arrows => Procedural Flow**