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function memberlocalFEF = MD_computeMemberFEFs_bothnode_MyMz_release(w, L)
% Code developed by Mrunmayi Mungekar and Devasmit Dutta
% MD_computeMemberFEFs.m computes the element stiffness matrix for a given element
with both nodes released
%
  Functions Called
%
             none
%
% Dictionary of Variables
% Input information
              % w = distributed load
              % L = length of the member
% Output information
              % memberlocalFEF = fixed end forces in the local element directions
%%%%%%%%
% Take the load components along the local x', y', z' directions
     wx = w(1);
     wy = w(2);
     wz = w(3);
% Calculate the corresponding fixed end forces due to load in each local x', y', z'
directions
     FEF_X = [-wx*L/2;0;0;0;0;0; -wx*L/2;0;0;0;0;0];
     FEF_Y = [0; -wy*L/2;0;0;0;-wy*L^2/12; 0;-wy*L/2;0;0;0;wy*L^2/12];
     Mb = FEF_Y(6);
     Me = FEF_Y(12);
     FEF_Y(2) = FEF_Y(2) - (1/L)*(Mb+Me);
     FEF_Y(8) = FEF_Y(8) + (1/L)*(Mb+Me);
     FEF_Y(6) = 0;
     FEF_Y(12) = 0;
     FEF_Z = [0;0;-wz*L/2;0;wz*L^2/12;0;0;0;-wz*L/2;0;-wz*L^2/12;0];
     Mb = FEF_Y(5);
     Me = FEF_Y(11);
     FEF_Z(3) = FEF_Z(3) - (1/L)*(Mb+Me);
     FEF_Z(9) = FEF_Z(9) + (1/L)*(Mb+Me);
     FEF_Z(5) = 0;
     FEF_Z(11) = 0;
% Sum up to get the total fixed end forces
    FEF = FEF_X + FEF_Y + FEF_Z;
    memberlocalFEF = FEF;
end
```