```
function M out = Assemble(M,m sub,e)
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% $RIN : 662028006$ $Date : November 10, 2021$
% $Code Version: 1.0$
% This function is used to Assemble the local Element Stiffness matrix in
% the right places on the Global Stiffness matrix
% Inputs : M : Input Global Matrix to modify
           m_sub : Local Element Stiffness matrix that should be integrated
용
                   to the Global Stiffness matrix
               : the element ID being handled
% Outputs: M out : The modified Global Stiffness matrix
   len = length(m_sub);
   M \text{ out } = M;
   for i=1:len
        for j=1:len
            M_{out}(e+i-1,e+j-1) = M_{out}(e+i-1,e+j-1) + m_{sub}(i,j);
        end
    end
end
```

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