MTE 204 - Project 1a Submission Document
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///************************************************
/// SOLUTIONS TO Problem 1a - 2016
///************************************************
/// Calculated Forces (N)
FA = 2630.000000, FB = 600.000000
FC = 380.000000, FD = 3550.000000

/// NODAL POSITIONS (mm)
U1x  =    0.00000, U1y  =    0.00000
U2x  =    0.00117, U2y  =   -0.00235
U3x  =    0.00263, U3y  =    0.00000
U4x  =    0.01183, U4y  =   -0.00145

/// NODAL FORCES (Newtons)
F1x = -2330.00000, F1y = -2017.77238
F2x = -300.00000, F2y = -519.61524
F3x =   -0.00000, F3y = 2537.38762
F4x = 2630.00000, F4y =   -0.00000

/// Element Stresses (MPa)
/// ID, Node 1, Node 2, STRESS[MPa]
-----------------------------------------------------------
1, 1, 2, 0.466004 [Tension]
2, 1, 4, 0.931988 [Tension]
3, 2, 4, 0.207861 [Tension]
4, 2, 3, 0.586004 [Tension]
5, 3, 4, 1.171972 [Compression]
```