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*****
*   Computer Software   *
*         for           *
*   STRUCTURAL ANALYSIS *
*     Fourth Edition    *
*         by            *
*   Aslam Kassimali    *
*****

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General Structural Data
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Project Title : Residential Beam
Structure Type : Beam
Number of Joints : 3
Number of Members : 2
Number of Material Property Sets (E) : 1
Number of Cross-Sectional Property Sets : 1

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Joint Coordinates
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Joint No.	X Coordinate
1	0.0000E+00
2	1.4400E+02
3	2.8800E+02

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Supports
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Joint No.	Y Restraint	Rotational Restraint
1	Yes	No
3	Yes	No

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Material Properties
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Material No.	Modulus of Elasticity (E)	Co-efficient of Thermal Expansion
1	8.2000E+05	0.0000E+00

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Cross-Sectional Properties
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Property No.	Moment of Inertia
1	6.6667E+02

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 Member Data
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Member No.	Beginning Joint	End Joint	Material No.	Cross-Sectional Property No.
1	1	2	1	1
2	2	3	1	1

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 Member Loads
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Member No.	Load Type	Load Intensity (w)
1	Uniform	1.872E+0
2	Uniform	1.872E+0

***** End of Input Data *****

 * Results of Analysis *

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 Joint Displacements
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Joint No.	Y Translation	Rotation (Rad)
1	0.0000E+00	-3.4084E-03
2	-3.0676E-01	-2.9104E-11
3	0.0000E+00	3.4084E-03

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 Member End Forces in Local Coordinates
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Member	Joint	Shear Force	Moment
1	1	2.6957E+02	-7.3242E-04
	2	0.0000E+00	1.9409E+04
2	2	0.0000E+00	-1.9409E+04
	3	2.6957E+02	2.4414E-04

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Support Reactions
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Joint No.	Y Force	Moment
1	2.6957E+02	0.0000E+00
3	2.6957E+02	0.0000E+00

***** End of Analysis *****