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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	8.8500E+05	0.0000E+00

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Cross-Sectional Properties
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Property No.	Moment of Inertia
1	6.9710E+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	1.373E+0
2	Uniform	1.373E+0

\*\*\*\*\* End of Input Data \*\*\*\*\*  
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 \* Results of Analysis \*  
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 Joint Displacements  
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Joint No.	Y Translation	Rotation (Rad)
1	0.0000E+00	-2.2151E-03
2	-1.9936E-01	-1.2600E-11
3	0.0000E+00	2.2151E-03

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 Member End Forces in Local Coordinates  
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Member	Joint	Shear Force	Moment
1	1	1.9771E+02	4.3945E-03
	2	-5.3406E-05	1.4235E+04
2	2	7.6294E-06	-1.4235E+04
	3	1.9771E+02	0.0000E+00

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Support Reactions  
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Joint No.	Y Force	Moment
1	1.9771E+02	0.0000E+00
3	1.9771E+02	0.0000E+00

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