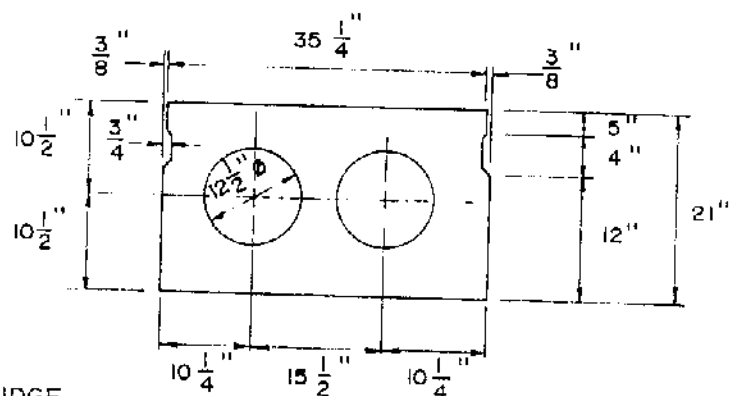


ภาคผนวก

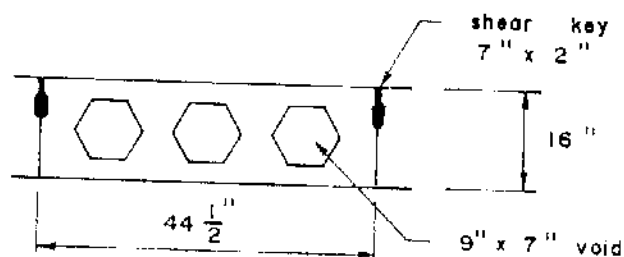
ภาคผนวก ก. รูปจำลองหน้าตัดของโครงสร้าง

CENTERPORT BRIDGE

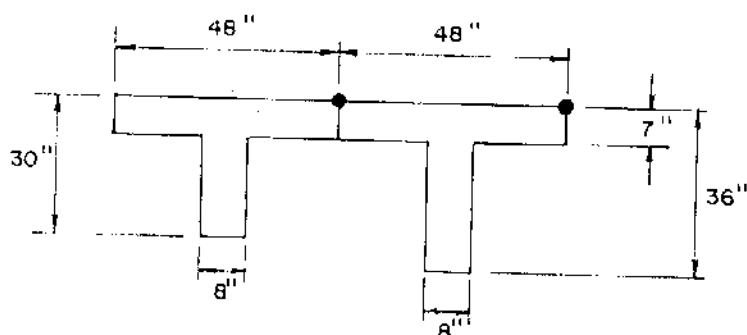
$E = 5800$ ksi
 $\nu = 0.0$
 $L = 32$ ft.
 $N = 9$ beams

SLIPPERY CREEK BRIDGE

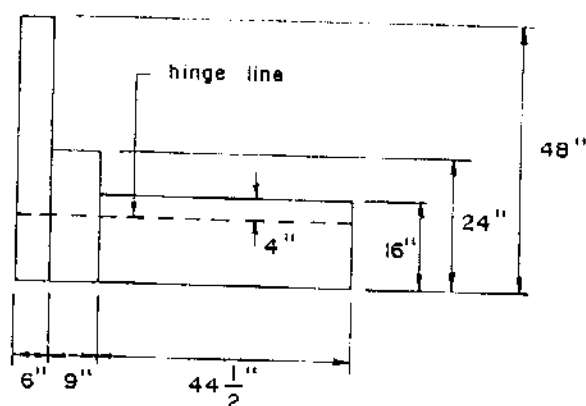
$E = 5800$ ksi
 $\nu = 0.15$
 $L = 34$ ft.
 $N = 10$ beams

NATHAN'S BRIDGE

$E = 5000$ ksi
 $\nu = 0.25$
 $L = 50$ ft.
 $N = 6$ beams

POWELL'S BRIDGE

$E = 3000$ ksi
 $\nu = 0.15$
 $L = 35$ ft.
 $N = 14$ beams



ภาคผนวก ข. ตัวอย่างการใช้โปรแกรม AMS

 OUTPUT RESULTS OF MULTIBEAM STRUCTURES
 DATE : 06-14-1995 PROJECT TITLE : SPRING
 FILENAME : SPRING ENGINEER : N.SOMCHAI

STRUCTURE IDENTIFICATION

NO. OF BEAMS = 10
 NO. OF BEAM TYPE = 1
 SPAN LENGTH = 408
 UNIT OF LENGTH = INCHES

BEAM TYPE DISTRIBUTION [BEAM NO./BEAM TYPE]

1/ 1 2/ 1 3/ 1 4/ 1 5/ 1 6/ 1 7/ 1
 8/ 1 9/ 1 10/ 1

BEAM TYPE 1 (HOLLOW CORE)

DIMENSION	:	
(1) = 44.500	:	E-MOD = 0.38E+04
(2) = 6.750	:	POIS = .15
(3) = 16.000	:	AREA = 560.125
(4) = 7.500	:	I-Y = 14477.42
(5) = 0.000	:	I-Z = 94640.37
(6) = 0.000	:	J = 46821.12
(BOXES) = 3	:	G = 2521.739

SPRING TYPE SHEAR KEY

NO. OF SHEAR KEY = 1

SHEAR KEY TYPE DISTRIBUTION [SHEAR KEY NO./SHEAR KEY TYPE]

1/ 1 2/ 1 3/ 1 4/ 1 5/ 1 6/ 1 7/ 1
 8/ 1 9/ 1

KEY NO.	X	Y	Z	O	L.LEVE	R.LEVEL
1	0.000E+00	0.100E+09	0.100E+09	0.000E+00	5.000	5.000

LOAD DATA

UNIT OF FORCES = KIPS
 NUMBER OF LOAD = 1
 NUMBER OF HARMONICS = 49 @ 2

LOAD ON BEAM NUMBER = 1
 LOAD MAGNITUDE = 64
 WIDTH OF LOAD = 0
 LENGTH OF LOAD = 10
 LONGITUDINAL POSITION OF LOAD CENTROID = 204
 LOAD ECCENTRICITY = 0
 LOAD TYPE = CONCEN

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 1				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.481E-04	7.371E-02	-2.013E-04
0.200L	0.000E+00	3.093E-04	1.427E-01	-3.985E-04
0.300L	0.000E+00	4.944E-04	2.017E-01	-5.851E-04
0.400L	0.000E+00	7.011E-04	2.443E-01	-7.471E-04
0.500L	0.000E+00	8.459E-04	2.616E-01	-8.348E-04
0.600L	0.000E+00	7.011E-04	2.443E-01	-7.471E-04
0.700L	0.000E+00	4.944E-04	2.017E-01	-5.851E-04
0.800L	0.000E+00	3.093E-04	1.427E-01	-3.985E-04
0.900L	0.000E+00	1.481E-04	7.371E-02	-2.013E-04
1.000L	0.000E+00	1.667E-12	8.512E-10	-2.308E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 2				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	6.260E-04	6.121E-02	-3.606E-04
0.200L	0.000E+00	1.244E-03	1.180E-01	-7.101E-04
0.300L	0.000E+00	1.836E-03	1.657E-01	-1.032E-03
0.400L	0.000E+00	2.348E-03	1.989E-01	-1.296E-03
0.500L	0.000E+00	2.605E-03	2.114E-01	-1.421E-03
0.600L	0.000E+00	2.348E-03	1.989E-01	-1.296E-03
0.700L	0.000E+00	1.836E-03	1.657E-01	-1.032E-03
0.800L	0.000E+00	1.244E-03	1.180E-01	-7.101E-04
0.900L	0.000E+00	6.260E-04	6.121E-02	-3.606E-04
1.000L	0.000E+00	7.165E-12	7.077E-10	-4.140E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 3				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	3.914E-04	4.690E-02	-2.824E-04
0.200L	0.000E+00	7.642E-04	8.996E-02	-5.501E-04
0.300L	0.000E+00	1.090E-03	1.253E-01	-7.837E-04
0.400L	0.000E+00	1.319E-03	1.488E-01	-9.531E-04
0.500L	0.000E+00	1.388E-03	1.572E-01	-1.015E-03
0.600L	0.000E+00	1.319E-03	1.488E-01	-9.531E-04
0.700L	0.000E+00	1.090E-03	1.253E-01	-7.837E-04
0.800L	0.000E+00	7.642E-04	8.996E-02	-5.501E-04
0.900L	0.000E+00	3.914E-04	4.690E-02	-2.824E-04
1.000L	0.000E+00	4.505E-12	5.432E-10	-3.254E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 4				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.917E-04	3.581E-02	-2.159E-04
0.200L	0.000E+00	3.639E-04	6.845E-02	-4.167E-04
0.300L	0.000E+00	4.938E-04	9.482E-02	-5.849E-04
0.400L	0.000E+00	5.579E-04	1.121E-01	-6.994E-04
0.500L	0.000E+00	5.633E-04	1.181E-01	-7.406E-04
0.600L	0.000E+00	5.579E-04	1.121E-01	-6.994E-04
0.700L	0.000E+00	4.938E-04	9.482E-02	-5.849E-04
0.800L	0.000E+00	3.639E-04	6.845E-02	-4.167E-04
0.900L	0.000E+00	1.917E-04	3.581E-02	-2.159E-04
1.000L	0.000E+00	2.226E-12	4.153E-10	-2.494E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 5				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	2.839E-05	2.742E-02	-1.614E-04
0.200L	0.000E+00	4.295E-05	5.229E-02	-3.097E-04
0.300L	0.000E+00	3.182E-05	7.222E-02	-4.309E-04
0.400L	0.000E+00	-6.789E-06	8.513E-02	-5.112E-04
0.500L	0.000E+00	-4.037E-05	8.961E-02	-5.393E-04
0.600L	0.000E+00	-6.789E-06	8.513E-02	-5.112E-04
0.700L	0.000E+00	3.182E-05	7.222E-02	-4.309E-04
0.800L	0.000E+00	4.295E-05	5.229E-02	-3.097E-04
0.900L	0.000E+00	2.839E-05	2.742E-02	-1.614E-04
1.000L	0.000E+00	3.510E-13	3.182E-10	-1.869E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 6				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-1.022E-04	2.120E-02	-1.179E-04
0.200L	0.000E+00	-2.101E-04	4.039E-02	-2.253E-04
0.300L	0.000E+00	-3.247E-04	5.569E-02	-3.120E-04
0.400L	0.000E+00	-4.343E-04	6.556E-02	-3.687E-04
0.500L	0.000E+00	-4.932E-04	6.897E-02	-3.884E-04
0.600L	0.000E+00	-4.343E-04	6.556E-02	-3.687E-04
0.700L	0.000E+00	-3.247E-04	5.569E-02	-3.120E-04
0.800L	0.000E+00	-2.101E-04	4.039E-02	-2.253E-04
0.900L	0.000E+00	-1.022E-04	2.120E-02	-1.179E-04
1.000L	0.000E+00	-1.155E-12	2.462E-10	-1.367E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 7

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-2.063E-04	1.673E-02	-8.319E-05
0.200L	0.000E+00	-4.100E-04	3.184E-02	-1.587E-04
0.300L	0.000E+00	-6.033E-04	4.387E-02	-3.192E-04
0.400L	0.000E+00	-7.650E-04	5.160E-02	-2.584E-04
0.500L	0.000E+00	-8.423E-04	5.427E-02	-2.720E-04
0.600L	0.000E+00	-7.650E-04	5.160E-02	-2.584E-04
0.700L	0.000E+00	-6.033E-04	4.387E-02	-2.192E-04
0.800L	0.000E+00	-4.100E-04	3.184E-02	-1.587E-04
0.900L	0.000E+00	-2.063E-04	1.673E-02	-8.319E-05
1.000L	0.000E+00	-2.360E-12	1.943E-10	-9.654E-13

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 8

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-2.907E-04	1.365E-02	-5.507E-05
0.200L	0.000E+00	-5.712E-04	2.598E-02	-1.049E-04
0.300L	0.000E+00	-8.265E-04	3.577E-02	-1.448E-04
0.400L	0.000E+00	-1.029E-03	4.206E-02	-1.705E-04
0.500L	0.000E+00	-1.120E-03	4.423E-02	-1.795E-04
0.600L	0.000E+00	-1.029E-03	4.206E-02	-1.705E-04
0.700L	0.000E+00	-8.265E-04	3.577E-02	-1.448E-04
0.800L	0.000E+00	-5.712E-04	2.598E-02	-1.049E-04
0.900L	0.000E+00	-2.907E-04	1.365E-02	-5.507E-05
1.000L	0.000E+00	-3.339E-12	1.586E-10	-6.393E-13

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 9

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-3.616E-04	1.173E-02	-3.142E-05
0.200L	0.000E+00	-7.065E-04	2.231E-02	-5.987E-05
0.300L	0.000E+00	-1.013E-03	3.071E-02	-8.260E-05
0.400L	0.000E+00	-1.248E-03	3.610E-02	-9.734E-05
0.500L	0.000E+00	-1.351E-03	3.796E-02	-1.024E-04
0.600L	0.000E+00	-1.248E-03	3.610E-02	-9.734E-05
0.700L	0.000E+00	-1.013E-03	3.071E-02	-8.260E-05
0.800L	0.000E+00	-7.065E-04	2.231E-02	-5.987E-05
0.900L	0.000E+00	-3.616E-04	1.173E-02	-3.142E-05
1.000L	0.000E+00	-4.162E-12	1.362E-10	-3.648E-13

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 10				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-4.249E-04	1.080E-02	-1.034E-05
0.200L	0.000E+00	-8.269E-04	2.054E-02	-1.973E-05
0.300L	0.000E+00	-1.179E-03	2.826E-02	-2.732E-05
0.400L	0.000E+00	-1.443E-03	3.321E-02	-3.243E-05
0.500L	0.000E+00	-1.555E-03	3.491E-02	-3.454E-05
0.600L	0.000E+00	-1.443E-03	3.321E-02	-3.243E-05
0.700L	0.000E+00	-1.179E-03	2.826E-02	-2.732E-05
0.800L	0.000E+00	-8.269E-04	2.054E-02	-1.973E-05
0.900L	0.000E+00	-4.249E-04	1.080E-02	-1.034E-05
1.000L	0.000E+00	-4.897E-12	1.254E-10	-1.200E-13

***** BEAM FORCES *****

BEAM No. = 1						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-4.441E-02	5.937E+00	-5.845E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-1.722E-01	5.803E+00	-5.788E+02	-4.399E+00	2.379E+02
0.200 L	0.000E+00	1.019E-02	7.100E+00	-5.594E+02	-8.108E+00	4.979E+02
0.300 L	0.000E+00	-1.110E-02	8.531E+00	-5.147E+02	-8.462E+00	8.130E+02
0.400 L	0.000E+00	1.326E+00	1.425E+01	-4.049E+02	1.013E+01	1.257E+03
0.500 L	0.000E+00	4.245E-07	1.237E-06	-4.394E-06	1.673E+02	1.992E+03
0.600 L	0.000E+00	-1.326E+00	-1.425E+01	4.049E+02	1.013E+01	1.257E+03
0.700 L	0.000E+00	1.110E-02	-8.531E+00	5.147E+02	-8.462E+00	8.130E+02
0.800 L	0.000E+00	-1.019E-02	-7.100E+00	5.594E+02	-8.108E+00	4.979E+02
0.900 L	0.000E+00	1.722E-01	-5.803E+00	5.788E+02	-4.399E+00	2.379E+02
1.000 L	0.000E+00	4.441E-02	-5.937E+00	5.845E+02	-2.071E-08	2.768E-06

***** BEAM FORCES *****

BEAM No. = 2						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	6.269E-02	5.386E+00	-1.049E+03	0.000E+00	0.000E+00
0.100 L	0.000E+00	6.103E-02	5.522E+00	-1.033E+03	2.299E+00	2.213E+02
0.200 L	0.000E+00	2.380E-01	6.123E+00	-9.820E+02	7.815E+00	4.574E+02
0.300 L	0.000E+00	6.228E-01	7.104E+00	-8.695E+02	2.382E+01	7.256E+02
0.400 L	0.000E+00	2.210E+00	8.463E+00	-6.228E+02	7.473E+01	1.044E+03
0.500 L	0.000E+00	2.311E-07	2.403E-07	-5.295E-06	2.218E+02	1.334E+03
0.600 L	0.000E+00	-2.210E+00	-8.463E+00	6.228E+02	7.473E+01	1.044E+03
0.700 L	0.000E+00	-6.228E-01	-7.104E+00	8.695E+02	2.382E+01	7.256E+02
0.800 L	0.000E+00	-2.380E-01	-6.123E+00	9.820E+02	7.815E+00	4.574E+02
0.900 L	0.000E+00	-6.103E-02	-5.522E+00	1.033E+03	2.299E+00	2.213E+02
1.000 L	0.000E+00	-6.269E-02	-5.386E+00	1.049E+03	2.923E-08	2.511E-06

***** BEAM FORCES *****						
BEAM No. = 3						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	9.292E-02	4.701E+00	-8.241E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	2.107E-01	4.784E+00	-8.037E+02	5.916E+00	1.931E+02
0.200 L	0.000E+00	2.367E-01	4.913E+00	-7.364E+02	1.483E+01	3.908E+02
0.300 L	0.000E+00	5.998E-01	4.949E+00	-6.014E+02	3.111E+01	5.933E+02
0.400 L	0.000E+00	4.468E-01	3.737E+00	-3.566E+02	5.662E+01	7.786E+02
0.500 L	0.000E+00	-1.915E-07	-3.112E-08	-1.909E-06	1.989E+01	8.452E+02
0.600 L	0.000E+00	-4.468E-01	-3.737E+00	3.566E+02	5.662E+01	7.786E+02
0.700 L	0.000E+00	-5.998E-01	-4.949E+00	6.014E+02	3.111E+01	5.933E+02
0.800 L	0.000E+00	-2.367E-01	-4.913E+00	7.364E+02	1.483E+01	3.908E+02
0.900 L	0.000E+00	-2.107E-01	-4.784E+00	8.037E+02	5.916E+00	1.931E+02
1.000 L	0.000E+00	-9.292E-02	-4.701E+00	8.241E+02	4.332E-08	2.192E-06

***** BEAM FORCES *****						
BEAM No. = 4						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	1.448E-01	3.939E+00	-6.317E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	1.704E-01	3.904E+00	-6.105E+02	6.320E+00	1.602E+02
0.200 L	0.000E+00	1.982E-01	3.770E+00	-5.434E+02	1.384E+01	3.174E+02
0.300 L	0.000E+00	1.897E-01	3.257E+00	-4.200E+02	2.227E+01	4.627E+02
0.400 L	0.000E+00	-3.296E-01	1.949E+00	-2.324E+02	2.254E+01	5.723E+02
0.500 L	0.000E+00	-4.268E-08	3.139E-08	-1.457E-06	-6.735E+00	6.168E+02
0.600 L	0.000E+00	3.296E-01	-1.949E+00	2.324E+02	2.254E+01	5.723E+02
0.700 L	0.000E+00	-1.897E-01	-3.257E+00	4.200E+02	2.227E+01	4.627E+02
0.800 L	0.000E+00	-1.982E-01	-3.770E+00	5.434E+02	1.384E+01	3.174E+02
0.900 L	0.000E+00	-1.704E-01	-3.904E+00	6.105E+02	6.320E+00	1.602E+02
1.000 L	0.000E+00	-1.448E-01	-3.939E+00	6.317E+02	6.752E-08	1.836E-06

***** BEAM FORCES *****						
BEAM No. = 5						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	9.873E-02	3.181E+00	-4.734E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	1.258E-01	3.110E+00	-4.546E+02	4.595E+00	1.289E+02
0.200 L	0.000E+00	6.394E-02	2.836E+00	-3.968E+02	8.688E+00	2.510E+02
0.300 L	0.000E+00	-2.765E-02	2.258E+00	-2.980E+02	9.903E+00	3.562E+02
0.400 L	0.000E+00	-5.054E-01	1.278E+00	-1.611E+02	6.659E-01	4.295E+02
0.500 L	0.000E+00	-9.357E-08	-4.008E-10	-9.199E-07	-3.844E+01	4.554E+02
0.600 L	0.000E+00	5.054E-01	-1.278E+00	1.611E+02	6.659E-01	4.295E+02
0.700 L	0.000E+00	2.765E-02	-2.258E+00	2.980E+02	9.903E+00	3.562E+02
0.800 L	0.000E+00	-6.394E-02	-2.836E+00	3.968E+02	8.688E+00	2.510E+02
0.900 L	0.000E+00	-1.258E-01	-3.110E+00	4.546E+02	4.595E+00	1.289E+02
1.000 L	0.000E+00	-9.873E-02	-3.181E+00	4.734E+02	4.603E-08	1.483E-06

***** BEAM FORCES *****						
BEAM No. = 6						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	4.796E-02	2.541E+00	-3.462E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	4.433E-02	2.450E+00	-3.311E+02	1.983E+00	1.024E+02
0.200 L	0.000E+00	-2.635E-02	2.166E+00	-2.858E+02	2.577E+00	1.973E+02
0.300 L	0.000E+00	-1.637E-01	1.647E+00	-2.115E+02	-8.910E-01	2.760E+02
0.400 L	0.000E+00	-5.670E-01	9.020E-01	-1.128E+02	-1.438E+01	3.287E+02
0.500 L	0.000E+00	-6.620E-08	8.001E-09	-6.687E-07	-5.318E+01	3.476E+02
0.600 L	0.000E+00	5.670E-01	-9.020E-01	1.128E+02	-1.438E+01	3.287E+02
0.700 L	0.000E+00	1.637E-01	-1.647E+00	2.115E+02	-8.910E-01	2.760E+02
0.800 L	0.000E+00	2.635E-02	-2.166E+00	2.858E+02	2.577E+00	1.973E+02
0.900 L	0.000E+00	-4.433E-02	-2.450E+00	3.311E+02	1.983E+00	1.024E+02
1.000 L	0.000E+00	-4.796E-02	-2.541E+00	3.462E+02	2.236E-08	1.185E-06

***** BEAM FORCES *****						
BEAM No. = 7						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-1.797E-02	2.039E+00	-2.445E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-2.331E-02	1.954E+00	-2.333E+02	-7.170E-01	8.205E+01
0.200 L	0.000E+00	-1.040E-01	1.693E+00	-2.001E+02	-3.092E+00	1.571E+02
0.300 L	0.000E+00	-2.339E-01	1.261E+00	-1.470E+02	-9.646E+00	2.179E+02
0.400 L	0.000E+00	-6.193E-01	6.732E-01	-7.793E+01	-2.573E+01	2.578E+02
0.500 L	0.000E+00	-7.276E-08	2.726E-09	-4.497E-07	-6.605E+01	2.717E+02
0.600 L	0.000E+00	6.193E-01	-6.732E-01	7.793E+01	-2.573E+01	2.578E+02
0.700 L	0.000E+00	2.339E-01	-1.261E+00	1.470E+02	-9.646E+00	2.179E+02
0.800 L	0.000E+00	1.040E-01	-1.693E+00	2.001E+02	-3.092E+00	1.571E+02
0.900 L	0.000E+00	2.331E-02	-1.954E+00	2.333E+02	-7.170E-01	8.205E+01
1.000 L	0.000E+00	1.797E-02	-2.039E+00	2.445E+02	-8.378E-09	9.506E-07

***** BEAM FORCES *****						
BEAM No. = 8						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-7.555E-02	1.680E+00	-1.619E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-8.704E-02	1.604E+00	-1.543E+02	-3.189E+00	6.752E+01
0.200 L	0.000E+00	-1.592E-01	1.376E+00	-1.320E+02	-8.018E+00	1.288E+02
0.300 L	0.000E+00	-2.879E-01	1.009E+00	-9.661E+01	-1.681E+01	1.779E+02
0.400 L	0.000E+00	-6.373E-01	5.359E-01	-5.108E+01	-3.447E+01	2.097E+02
0.500 L	0.000E+00	-6.452E-08	2.834E-09	-3.013E-07	-7.477E+01	2.207E+02
0.600 L	0.000E+00	6.373E-01	-5.359E-01	5.108E+01	-3.447E+01	2.097E+02
0.700 L	0.000E+00	2.879E-01	-1.009E+00	9.661E+01	-1.681E+01	1.779E+02
0.800 L	0.000E+00	1.592E-01	-1.376E+00	1.320E+02	-8.018E+00	1.288E+02
0.900 L	0.000E+00	8.704E-02	-1.604E+00	1.543E+02	-3.189E+00	6.752E+01
1.000 L	0.000E+00	7.555E-02	-1.680E+00	1.619E+02	-3.522E-08	7.834E-07

***** BEAM FORCES *****						
BEAM No. = 9						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-1.304E-01	1.452E+00	-9.239E+01	0.000E+00	0.000E+00
0.100 L	0.000E+00	-1.398E-01	1.383E+00	-8.803E+01	-5.395E+00	5.829E+01
0.200 L	0.000E+00	-2.083E-01	1.180E+00	-7.528E+01	-1.232E+01	1.110E+02
0.300 L	0.000E+00	-3.252E-01	8.578E-01	-5.517E+01	-2.290E+01	1.530E+02
0.400 L	0.000E+00	-6.518E-01	5.429E-01	-2.935E+01	-4.169E+01	1.797E+02
0.500 L	0.000E+00	-6.947E-08	4.062E-09	-1.627E-07	-8.295E+01	1.892E+02
0.600 L	0.000E+00	6.518E-01	-4.429E-01	2.935E+01	-4.169E+01	1.797E+02
0.700 L	0.000E+00	3.252E-01	-8.578E-01	5.517E+01	-2.290E+01	1.530E+02
0.800 L	0.000E+00	2.083E-01	-1.180E+00	7.528E+01	-1.232E+01	1.110E+02
0.900 L	0.000E+00	1.398E-01	-1.383E+00	8.803E+01	-5.395E+00	5.829E+01
1.000 L	0.000E+00	1.304E-01	-1.452E+00	9.239E+01	-6.081E-08	6.768E-07

***** BEAM FORCES *****						
BEAM No. = 10						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-1.788E-01	1.341E+00	-3.038E+01	0.000E+00	0.000E+00
0.100 L	0.000E+00	-1.900E-01	1.277E+00	-2.899E+01	-7.413E+00	5.386E+01
0.200 L	0.000E+00	-2.492E-01	1.088E+00	-2.495E+01	-1.621E+01	1.025E+02
0.300 L	0.000E+00	-3.628E-01	7.890E-01	-1.864E+01	-2.839E+01	1.411E+02
0.400 L	0.000E+00	-6.728E-01	3.941E-01	-1.079E+01	-4.842E+01	1.656E+02
0.500 L	0.000E+00	-5.480E-08	-3.058E-09	-9.635E-08	-8.688E+01	1.716E+02
0.600 L	0.000E+00	6.728E-01	-3.941E-01	1.079E+01	-4.842E+01	1.656E+02
0.700 L	0.000E+00	3.628E-01	-7.890E-01	1.864E+01	-2.839E+01	1.411E+02
0.800 L	0.000E+00	2.492E-01	-1.088E+00	2.495E+01	-1.621E+01	1.025E+02
0.900 L	0.000E+00	1.900E-01	-1.277E+00	2.899E+01	-7.413E+00	5.386E+01
1.000 L	0.000E+00	1.788E-01	-1.341E+00	3.038E+01	-8.334E-08	6.254E-07

***** FIBER STRESS OF BEAM *****						
BEAM No. 1						
AT POINT	-22.25	0.00	22.25	0.00	22.25	16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-1.304E-01	-1.325E-01	1.304E-01	1.325E-01	1.325E-01	1.325E-01
0.200L	-2.732E-01	-2.770E-01	2.732E-01	2.770E-01	2.770E-01	2.770E-01
0.300L	-4.473E-01	-4.513E-01	4.473E-01	4.513E-01	4.513E-01	4.513E-01
0.400L	-6.969E-01	-6.921E-01	6.969E-01	6.921E-01	6.921E-01	6.921E-01
0.500L	-1.140E+00	-1.061E+00	1.140E+00	1.061E+00	1.061E+00	1.061E+00
0.600L	-6.969E-01	-6.921E-01	6.969E-01	6.921E-01	6.921E-01	6.921E-01
0.700L	-4.473E-01	-4.513E-01	4.473E-01	4.513E-01	4.513E-01	4.513E-01
0.800L	-2.732E-01	-2.770E-01	2.732E-01	2.770E-01	2.770E-01	2.770E-01
0.900L	-1.304E-01	-1.325E-01	1.304E-01	1.325E-01	1.325E-01	1.325E-01
1.000L	-1.525E-09	-1.534E-09	1.525E-09	1.534E-09	1.534E-09	1.534E-09

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***** FIBER STRESS OF BEAM *****
                        BEAM No. 2
AT POINT   -22.25   0.00   22.25   0.00   32.25  16.00   -22.25  16.00

0.000L      0.000E+00      0.000E+00      0.000E+00      0.000E+00
0.100L     -1.229E-01     -1.218E-01     1.229E-01     1.218E-01
0.200L     -2.546E-01     -2.509E-01     2.546E-01     2.509E-01
0.300L     -4.066E-01     -3.954E-01     4.066E-01     3.954E-01
0.400L     -5.945E-01     -5.593E-01     5.945E-01     5.593E-01
0.500L     -7.894E-01     -6.852E-01     7.894E-01     6.852E-01
0.600L     -5.945E-01     -5.593E-01     5.945E-01     5.593E-01
0.700L     -4.066E-01     -3.954E-01     4.066E-01     3.954E-01
0.800L     -2.546E-01     -2.509E-01     2.546E-01     2.509E-01
0.900L     -1.229E-01     -1.218E-01     1.229E-01     1.218E-01
1.000L     -1.395E-09     -1.381E-09     1.395E-09     1.381E-09
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***** FIBER STRESS OF BEAM *****
                        BEAM No. 3
AT POINT   -22.25   0.00   22.25   0.00   32.25  16.00   -22.25  16.00

0.000L      0.000E+00      0.000E+00      0.000E+00      0.000E+00
0.100L     -1.081E-01     -1.053E-01     1.081E-01     1.053E-01
0.200L     -2.194E-01     -2.125E-01     2.194E-01     2.125E-01
0.300L     -3.352E-01     -3.205E-01     3.352E-01     3.205E-01
0.400L     -4.435E-01     -4.169E-01     4.435E-01     4.169E-01
0.500L     -4.717E-01     -4.624E-01     4.717E-01     4.624E-01
0.600L     -4.435E-01     -4.169E-01     4.435E-01     4.169E-01
0.700L     -3.352E-01     -3.205E-01     3.352E-01     3.205E-01
0.800L     -2.194E-01     -2.125E-01     2.194E-01     2.125E-01
0.900L     -1.081E-01     -1.053E-01     1.081E-01     1.053E-01
1.000L     -1.221E-09     -1.201E-09     1.221E-09     1.201E-09
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***** FIBER STRESS OF BEAM *****
                        BEAM No. 4
AT POINT   -22.25   0.00   22.25   0.00   22.25  16.00   -22.25  16.00

0.000L      0.000E+00      0.000E+00      0.000E+00      0.000E+00
0.100L     -9.002E-02     -8.705E-02     9.002E-02     8.705E-02
0.200L     -1.787E-01     -1.721E-01     1.787E-01     1.721E-01
0.300L     -2.609E-01     -2.505E-01     2.609E-01     2.505E-01
0.400L     -3.215E-01     -3.109E-01     3.215E-01     3.109E-01
0.500L     -3.392E-01     -3.424E-01     3.392E-01     3.424E-01
0.600L     -3.215E-01     -3.109E-01     3.215E-01     3.109E-01
0.700L     -2.609E-01     -2.505E-01     2.609E-01     2.505E-01
0.800L     -1.787E-01     -1.721E-01     1.787E-01     1.721E-01
0.900L     -9.002E-02     -8.705E-02     9.002E-02     8.705E-02
1.000L     -1.031E-09     -9.989E-10     1.031E-09     9.989E-10
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***** FIBER STRESS OF BEAM *****					
BEAM No. 5					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-7.229E-02	-7.013E-02	7.229E-02	7.013E-02	
0.200L	-1.407E-01	-1.367E-01	1.407E-01	1.367E-01	
0.300L	-1.992E-01	-1.945E-01	1.992E-01	1.945E-01	
0.400L	-2.375E-01	-2.372E-01	2.375E-01	2.372E-01	
0.500L	-2.426E-01	-2.607E-01	2.426E-01	2.607E-01	
0.600L	-2.375E-01	-2.372E-01	2.375E-01	2.372E-01	
0.700L	-1.992E-01	-1.945E-01	1.992E-01	1.945E-01	
0.800L	-1.407E-01	-1.367E-01	1.407E-01	1.367E-01	
0.900L	-7.229E-02	-7.013E-02	7.229E-02	7.013E-02	
1.000L	-8.304E-10	-8.087E-10	8.304E-10	8.087E-10	

***** FIBER STRESS OF BEAM *****					
BEAM No. 6					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.100L	-5.708E-02	-5.614E-02	5.708E-02	5.614E-02	
0.200L	-1.097E-01	-1.084E-01	1.097E-01	1.084E-01	
0.300L	-1.523E-01	-1.527E-01	1.523E-01	1.527E-01	
0.400L	-1.783E-01	-1.850E-01	1.783E-01	1.850E-01	
0.500L	-1.796E-01	-2.046E-01	1.796E-01	2.046E-01	
0.600L	-1.783E-01	-1.850E-01	1.783E-01	1.850E-01	
0.700L	-1.523E-01	-1.527E-01	1.523E-01	1.527E-01	
0.800L	-1.097E-01	-1.084E-01	1.097E-01	1.084E-01	
0.900L	-5.708E-02	-5.614E-02	5.708E-02	5.614E-02	
1.000L	-6.599E-10	-6.494E-10	6.599E-10	6.494E-10	

***** FIBER STRESS OF BEAM *****					
BEAM No. 7					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.100L	-4.517E-02	-4.551E-02	4.517E-02	4.551E-02	
0.200L	-8.607E-02	-8.752E-02	8.607E-02	8.752E-02	
0.300L	-1.181E-01	-1.227E-01	1.181E-01	1.227E-01	
0.400L	-1.364E-01	-1.485E-01	1.364E-01	1.485E-01	
0.500L	-1.364E-01	-1.656E-01	1.364E-01	1.656E-01	
0.600L	-1.364E-01	-1.485E-01	1.364E-01	1.485E-01	
0.700L	-1.181E-01	-1.227E-01	1.181E-01	1.227E-01	
0.800L	-8.607E-02	-8.752E-02	8.607E-02	8.752E-02	
0.900L	-4.517E-02	-4.551E-02	4.517E-02	4.551E-02	
1.000L	-5.233E-10	-5.273E-10	5.233E-10	5.273E-10	

***** FIBER STRESS OF BEAM *****					
BEAM No. 8					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-3.656E-02	-3.806E-02	3.656E-02	3.806E-02	3.806E-02
0.200L	-6.929E-02	-7.306E-02	6.929E-02	7.306E-02	7.306E-02
0.300L	-9.436E-02	-1.023E-01	9.436E-02	1.023E-01	1.023E-01
0.400L	-1.078E-01	-1.240E-01	1.078E-01	1.240E-01	1.240E-01
0.500L	-1.044E-01	-1.395E-01	1.044E-01	1.395E-01	1.395E-01
0.600L	-1.078E-01	-1.240E-01	1.078E-01	1.240E-01	1.240E-01
0.700L	-9.436E-02	-1.023E-01	9.436E-02	1.023E-01	1.023E-01
0.800L	-6.929E-02	-7.306E-02	6.929E-02	7.306E-02	7.306E-02
0.900L	-3.656E-02	-3.806E-02	3.656E-02	3.806E-02	3.806E-02
1.000L	-4.246E-10	-4.412E-10	4.246E-10	4.412E-10	4.412E-10

***** FIBER STRESS OF BEAM *****					
BEAM No. 9					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-3.094E-02	-3.348E-02	3.094E-02	3.348E-02	3.348E-02
0.200L	-5.845E-02	-6.424E-02	5.845E-02	6.424E-02	6.424E-02
0.300L	-7.914E-02	-8.990E-02	7.914E-02	8.990E-02	8.990E-02
0.400L	-8.952E-02	-1.091E-01	8.952E-02	1.091E-01	1.091E-01
0.500L	-8.504E-02	-1.240E-01	8.504E-02	1.240E-01	1.240E-01
0.600L	-8.952E-02	-1.091E-01	8.952E-02	1.091E-01	1.091E-01
0.700L	-7.914E-02	-8.990E-02	7.914E-02	8.990E-02	8.990E-02
0.800L	-5.845E-02	-6.424E-02	5.845E-02	6.424E-02	6.424E-02
0.900L	-3.094E-02	-3.348E-02	3.094E-02	3.348E-02	3.348E-02
1.000L	-3.597E-10	-3.883E-10	3.597E-10	3.883E-10	3.883E-10

***** FIBER STRESS OF BEAM *****					
BEAM No. 10					
AT POINT	-22.25	0.00	22.25	0.00	22.25 16.00 -22.25 16.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-2.802E-02	-3.150E-02	2.802E-02	3.150E-02	3.150E-02
0.200L	-5.283E-02	-6.045E-02	5.283E-02	6.045E-02	6.045E-02
0.300L	-7.131E-02	-8.466E-02	7.131E-02	8.466E-02	8.466E-02
0.400L	-8.012E-02	-1.029E-01	8.012E-02	1.029E-01	1.029E-01
0.500L	-7.440E-02	-1.152E-01	7.440E-02	1.152E-01	1.152E-01
0.600L	-8.012E-02	-1.029E-01	8.012E-02	1.029E-01	1.029E-01
0.700L	-7.131E-02	-8.466E-02	7.131E-02	8.466E-02	8.466E-02
0.800L	-5.283E-02	-6.045E-02	5.283E-02	6.045E-02	6.045E-02
0.900L	-2.802E-02	-3.150E-02	2.802E-02	3.150E-02	3.150E-02
1.000L	-3.260E-10	-3.652E-10	3.260E-10	3.652E-10	3.652E-10

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 1

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	7.165E-04	1.265E-02	0.000E+00
0.200L	0.000E+00	6.391E-04	3.183E-02	0.000E+00
0.300L	0.000E+00	1.115E-02	7.064E-02	0.000E+00
0.400L	0.000E+00	4.819E-02	1.915E-01	0.000E+00
0.500L	0.000E+00	-1.821E+00	1.093E+00	0.000E+00
0.600L	0.000E+00	4.819E-02	1.915E-01	0.000E+00
0.700L	0.000E+00	1.115E-02	7.064E-02	0.000E+00
0.800L	0.000E+00	6.392E-04	3.183E-02	0.000E+00
0.900L	0.000E+00	7.166E-04	1.265E-02	0.000E+00
1.000L	0.000E+00	-4.496E-09	8.958E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 2

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	2.672E-03	2.142E-02	0.000E+00
0.200L	0.000E+00	5.795E-03	5.070E-02	0.000E+00
0.300L	0.000E+00	3.068E-02	1.029E-01	0.000E+00
0.400L	0.000E+00	1.088E-01	2.065E-01	0.000E+00
0.500L	0.000E+00	-2.812E+00	6.190E-02	0.000E+00
0.600L	0.000E+00	1.088E-01	2.065E-01	0.000E+00
0.700L	0.000E+00	3.068E-02	1.029E-01	0.000E+00
0.800L	0.000E+00	5.796E-03	5.070E-02	0.000E+00
0.900L	0.000E+00	2.672E-03	2.142E-02	0.000E+00
1.000L	0.000E+00	-5.657E-09	-3.007E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 3

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	4.232E-03	2.436E-02	0.000E+00
0.200L	0.000E+00	1.059E-02	5.448E-02	0.000E+00
0.300L	0.000E+00	3.669E-02	9.594E-02	0.000E+00
0.400L	0.000E+00	9.589E-02	1.431E-01	0.000E+00
0.500L	0.000E+00	-1.991E+00	1.954E-01	0.000E+00
0.600L	0.000E+00	9.589E-02	1.431E-01	0.000E+00
0.700L	0.000E+00	3.669E-02	9.594E-02	0.000E+00
0.800L	0.000E+00	1.059E-02	5.448E-02	0.000E+00
0.900L	0.000E+00	4.232E-03	2.436E-02	0.000E+00
1.000L	0.000E+00	-2.805E-09	3.853E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 4

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.0001	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.1001	0.000E+00	4.964E-03	2.283E-02	0.000E+00
0.2001	0.000E+00	1.154E-02	4.802E-02	0.000E+00
0.3001	0.000E+00	3.305E-02	7.574E-02	0.000E+00
0.4001	0.000E+00	7.214E-02	9.814E-02	0.000E+00
0.5001	0.000E+00	-1.807E+00	6.076E-02	0.000E+00
0.6001	0.000E+00	7.214E-02	9.814E-02	0.000E+00
0.7001	0.000E+00	3.305E-02	7.574E-02	0.000E+00
0.8001	0.000E+00	1.154E-02	4.802E-02	0.000E+00
0.9001	0.000E+00	4.964E-03	2.283E-02	0.000E+00
1.0001	0.000E+00	-2.477E-09	1.102E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 5

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.0001	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.1001	0.000E+00	4.654E-03	1.895E-02	0.000E+00
0.2001	0.000E+00	1.031E-02	3.818E-02	0.000E+00
0.3001	0.000E+00	2.654E-02	5.648E-02	0.000E+00
0.4001	0.000E+00	6.002E-02	7.097E-02	0.000E+00
0.5001	0.000E+00	-1.406E+00	6.248E-02	0.000E+00
0.6001	0.000E+00	6.002E-02	7.097E-02	0.000E+00
0.7001	0.000E+00	2.654E-02	5.648E-02	0.000E+00
0.8001	0.000E+00	1.031E-02	3.818E-02	0.000E+00
0.9001	0.000E+00	4.654E-03	1.895E-02	0.000E+00
1.0001	0.000E+00	-1.461E-09	2.167E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 6

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.0001	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.1001	0.000E+00	3.822E-03	1.449E-02	0.000E+00
0.2001	0.000E+00	8.172E-03	2.845E-02	0.000E+00
0.3001	0.000E+00	2.053E-02	4.089E-02	0.000E+00
0.4001	0.000E+00	4.633E-02	4.984E-02	0.000E+00
0.5001	0.000E+00	-1.122E+00	2.816E-02	0.000E+00
0.6001	0.000E+00	4.633E-02	4.984E-02	0.000E+00
0.7001	0.000E+00	2.053E-02	4.089E-02	0.000E+00
0.8001	0.000E+00	8.172E-03	2.845E-02	0.000E+00
0.9001	0.000E+00	3.822E-03	1.449E-02	0.000E+00
1.0001	0.000E+00	-1.102E-09	1.134E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 7

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	3.800E-03	1.027E-02	0.000E+00
0.200L	0.000E+00	5.943E-03	1.992E-02	0.000E+00
0.300L	0.000E+00	1.478E-02	2.823E-02	0.000E+00
0.400L	0.000E+00	3.427E-02	3.417E-02	0.000E+00
0.500L	0.000E+00	-3.099E-01	1.647E-02	0.000E+00
0.600L	0.000E+00	3.427E-02	3.417E-02	0.000E+00
0.700L	0.000E+00	1.478E-02	2.823E-02	0.000E+00
0.800L	0.000E+00	5.943E-03	1.992E-02	0.000E+00
0.900L	0.000E+00	2.800E-03	1.027E-02	0.000E+00
1.000L	0.000E+00	-6.614E-10	1.038E-10	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 8

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.792E-03	6.519E-03	0.000E+00
0.200L	0.000E+00	3.797E-03	1.257E-02	0.000E+00
0.300L	0.000E+00	9.516E-03	1.773E-02	0.000E+00
0.400L	0.000E+00	2.214E-02	2.168E-02	0.000E+00
0.500L	0.000E+00	-5.331E-01	4.307E-03	0.000E+00
0.600L	0.000E+00	2.214E-02	2.168E-02	0.000E+00
0.700L	0.000E+00	9.516E-03	1.773E-02	0.000E+00
0.800L	0.000E+00	3.797E-03	1.257E-02	0.000E+00
0.900L	0.000E+00	1.792E-03	6.519E-03	0.000E+00
1.000L	0.000E+00	-4.209E-10	5.703E-11	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 9

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	3.434E-04	3.155E-03	0.000E+00
0.200L	0.000E+00	1.838E-03	6.048E-03	0.000E+00
0.300L	0.000E+00	4.583E-03	8.567E-03	0.000E+00
0.400L	0.000E+00	1.115E-02	1.074E-02	0.000E+00
0.500L	0.000E+00	-2.351E-01	-1.312E-02	0.000E+00
0.600L	0.000E+00	1.115E-02	1.074E-02	0.000E+00
0.700L	0.000E+00	4.583E-03	8.567E-03	0.000E+00
0.800L	0.000E+00	1.838E-03	6.048E-03	0.000E+00
0.900L	0.000E+00	3.434E-04	3.155E-03	0.000E+00
1.000L	0.000E+00	-1.512E-10	1.620E-11	0.000E+00

```
*****
                OUTPUT RESULTS OF MULTIBEAM STRUCTURES
DATE       : 06-15-1995      PROJECT TITLE : PLATE TYPE SHEAR KEY
FILENAME : PLATE             ENGINEER      : N.SOMCHAI
*****
```

STRUCTURE IDENTIFICATION

```
NO. OF BEAMS      =      5
NO. OF BEAM TYPE  =      1
SPAN LENGTH      =     240
UNIT OF LENGTH    =     INCHES
```

BEAM TYPE DISTRIBUTION [BEAM NO./BEAM TYPE]

```
1/ 1    2/ 1    3/ 1    4/ 1    5/ 1
```

BEAM TYPE 1 (RECTANGULAR)

```

      DIMENSION      :
(1)    10            :      E-MOD = 0.30E+04
(2)    30            :      POIS  = 0
(3)    0             :      AREA  = 200
(4)    0             :      I-Y   = 6666.667
(5)    0             :      I-Z   = 1666.667
(6)    0             :      J     = 4580
(BOXES) 0            :      G     = 1500
```

PLATE TYPE SHEAR KEY

```
NO. OF SHEAR KEY =      1
```

SHEAR KEY TYPE DISTRIBUTION [SHEAR KEY NO./SHEAR KEY TYPE]

```
1/ 1    2/ 1    3/ 1    4/ 1
```

KEY NO.	E-MOD	THK.	HZ	VC L.LEVEL	R.LEVEL	POIS
1	0.30E+04	3.00	30.00	0.00	2.50	2.50
						0.00

LOAD DATA

```
UNIT OF FORCES      = KIPS
NUMBER OF LOAD      = 1
NUMBER OF HARMONICS  = 49 @ 2
```

```
LOAD ON BEAM NUMBER      = 3
LOAD MAGNITUDE           = 100
WIDTH OF LOAD            = 0
LENGTH OF LOAD           = 5
LONGITUDINAL POSITION OF LOAD CENTROID = 120
LOAD ECCENTRICITY        = 0
LOAD TYPE                = CONCEN
```

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 1				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	-1.613E-03	0.000E+00	0.000E+00	0.000E+00
0.100L	-1.537E-03	-4.395E-03	2.994E-02	5.891E-04
0.200L	-1.314E-03	-8.422E-03	5.685E-02	1.120E-03
0.300L	-9.649E-04	-1.171E-02	7.808E-02	1.539E-03
0.400L	-5.126E-04	-1.387E-02	9.162E-02	1.805E-03
0.500L	7.089E-11	-1.463E-02	9.626E-02	1.897E-03
0.600L	5.126E-04	-1.387E-02	9.162E-02	1.805E-03
0.700L	9.649E-04	-1.171E-02	7.808E-02	1.539E-03
0.800L	1.314E-03	-8.422E-03	5.685E-02	1.120E-03
0.900L	1.537E-03	-4.395E-03	2.994E-02	5.891E-04
1.000L	1.613E-03	1.265E-09	-8.438E-09	-1.666E-10

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 2				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	-8.081E-03	0.000E+00	0.000E+00	0.000E+00
0.100L	-7.707E-03	-5.312E-03	5.931E-02	7.788E-04
0.200L	-6.607E-03	-1.143E-02	1.134E-01	1.526E-03
0.300L	-4.852E-03	-1.649E-02	1.573E-01	2.186E-03
0.400L	-2.587E-03	-2.024E-02	1.860E-01	2.660E-03
0.500L	3.532E-10	-2.162E-02	1.960E-01	2.824E-03
0.600L	2.587E-03	-2.024E-02	1.860E-01	2.660E-03
0.700L	4.852E-03	-1.649E-02	1.573E-01	2.186E-03
0.800L	6.607E-03	-1.143E-02	1.134E-01	1.526E-03
0.900L	7.707E-03	-5.312E-03	5.931E-02	7.788E-04
1.000L	8.081E-03	1.774E-09	-1.699E-08	-2.344E-10

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 3				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	-1.245E-02	0.000E+00	0.000E+00	0.000E+00
0.100L	-1.210E-02	-9.116E-09	7.802E-02	8.825E-10
0.200L	-1.097E-02	-1.732E-08	1.514E-01	1.671E-09
0.300L	-8.861E-03	-2.381E-08	2.149E-01	2.288E-09
0.400L	-5.372E-03	-2.796E-08	2.615E-01	2.679E-09
0.500L	5.263E-10	-2.940E-08	2.804E-01	2.812E-09
0.600L	5.372E-03	-2.796E-08	2.615E-01	2.679E-09
0.700L	8.861E-03	-2.381E-08	2.149E-01	2.288E-09
0.800L	1.097E-02	-1.732E-08	1.514E-01	1.671E-09
0.900L	1.210E-02	-9.116E-09	7.802E-02	8.825E-10
1.000L	1.245E-02	2.572E-15	-2.338E-08	-2.471E-16

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 4				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	-3.081E-03	0.000E+00	0.000E+00	0.000E+00
0.100L	-7.707E-03	5.812E-03	5.932E-02	-7.788E-04
0.200L	-6.607E-03	1.143E-02	1.134E-01	-1.526E-03
0.300L	-4.852E-03	1.649E-02	1.573E-01	-2.186E-03
0.400L	-2.587E-03	2.024E-02	1.860E-01	-2.660E-03
0.500L	3.532E-10	2.162E-02	1.960E-01	-2.824E-03
0.600L	2.587E-03	2.024E-02	1.860E-01	-2.660E-03
0.700L	4.852E-03	1.649E-02	1.573E-01	-2.186E-03
0.800L	6.607E-03	1.143E-02	1.134E-01	-1.526E-03
0.900L	7.707E-03	5.812E-03	5.932E-02	-7.788E-04
1.000L	8.081E-03	-1.774E-09	-1.699E-08	2.344E-10

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 5				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	-1.613E-03	0.000E+00	0.000E+00	0.000E+00
0.100L	-1.537E-03	4.395E-03	2.994E-02	-5.891E-04
0.200L	-1.314E-03	8.422E-03	5.685E-02	-1.120E-03
0.300L	-9.649E-04	1.171E-02	7.808E-02	-1.539E-03
0.400L	-5.126E-04	1.387E-02	9.162E-02	-1.805E-03
0.500L	7.089E-11	1.463E-02	9.626E-02	-1.897E-03
0.600L	5.126E-04	1.387E-02	9.162E-02	-1.805E-03
0.700L	9.649E-04	1.171E-02	7.808E-02	-1.539E-03
0.800L	1.314E-03	8.422E-03	5.685E-02	-1.120E-03
0.900L	1.537E-03	4.395E-03	2.994E-02	-5.891E-04
1.000L	1.613E-03	-1.265E-09	-8.438E-09	1.666E-10

***** BEAM FORCES *****						
BEAM No. = 1						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-9.377E-01	5.703E+00	1.715E+02	0.000E+00	0.000E+00
0.100 L	3.796E+00	-8.974E-01	5.382E+00	1.630E+02	-3.196E+00	1.058E+02
0.200 L	7.237E+00	-8.011E-01	4.478E+00	1.383E+02	-6.441E+00	1.994E+02
0.300 L	1.014E+01	-6.760E-01	3.150E+00	9.952E+01	-9.726E+00	2.697E+02
0.400 L	1.231E+01	-4.081E-01	1.616E+00	5.189E+01	-1.244E+01	3.109E+02
0.500 L	1.304E+01	4.852E-03	-2.414E-07	-7.415E-06	-1.322E+01	3.250E+02
0.600 L	1.231E+01	4.081E-01	-1.616E+00	-5.189E+01	-1.244E+01	3.109E+02
0.700 L	1.014E+01	6.760E-01	-3.150E+00	-9.952E+01	-9.726E+00	2.697E+02
0.800 L	7.237E+00	8.011E-01	-4.478E+00	-1.383E+02	-6.441E+00	1.994E+02
0.900 L	3.796E+00	8.974E-01	-5.382E+00	-1.630E+02	-3.196E+00	1.058E+02
1.000 L	-1.069E-06	9.377E-01	-5.703E+00	-1.715E+02	9.941E-07	-2.936E-05

***** BEAM FORCES *****						
BEAM No. = 2						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	1.206E+00	1.336E+01	2.243E+02	0.000E+00	0.000E+00
0.100 L	1.859E+01	1.166E+00	1.321E+01	2.202E+02	-1.542E+00	1.802E+02
0.200 L	3.613E+01	9.777E-01	1.251E+01	2.048E+02	-4.644E+00	3.589E+02
0.300 L	5.102E+01	4.419E-01	1.055E+01	1.684E+02	-1.095E+01	5.273E+02
0.400 L	6.138E+01	-6.901E-01	6.443E+00	9.641E+01	-2.113E+01	6.585E+02
0.500 L	6.738E+01	-2.815E-07	-6.269E-07	-1.180E-05	-2.178E+01	6.943E+02
0.600 L	6.138E+01	6.901E-01	-6.443E+00	-9.641E+01	-2.113E+01	6.585E+02
0.700 L	5.102E+01	-4.419E-01	-1.055E+01	-1.684E+02	-1.095E+01	5.273E+02
0.800 L	3.613E+01	-9.777E-01	-1.251E+01	-2.048E+02	-4.644E+00	3.589E+02
0.900 L	1.859E+01	-1.166E+00	-1.321E+01	-2.202E+02	-1.542E+00	1.802E+02
1.000 L	-5.707E-06	-1.206E+00	-1.336E+01	-2.243E+02	1.152E-06	-5.575E-05

***** BEAM FORCES *****						
BEAM No. = 3						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	1.091E-05	1.226E+01	2.574E-04	0.000E+00	0.000E+00
0.100 L	1.789E+01	1.100E-05	1.241E+01	2.434E-04	-8.012E-06	1.582E+02
0.200 L	3.918E+01	1.074E-05	1.651E+01	2.044E-04	-1.501E-05	3.392E+02
0.300 L	6.300E+01	8.766E-06	2.194E+01	1.461E-04	-2.039E-05	5.785E+02
0.400 L	1.088E+02	4.997E-06	3.512E+01	7.593E-05	-2.386E-05	9.405E+02
0.500 L	1.530E+02	-5.732E-13	1.243E-05	-1.107E-11	-2.507E-05	1.500E+03
0.600 L	1.088E+02	-4.997E-06	-3.512E+01	-7.593E-05	-2.386E-05	9.405E+02
0.700 L	6.300E+01	-8.766E-06	-2.194E+01	-1.461E-04	-2.039E-05	5.785E+02
0.800 L	3.918E+01	-1.074E-05	-1.651E+01	-2.044E-04	-1.501E-05	3.392E+02
0.900 L	1.789E+01	-1.100E-05	-1.241E+01	-2.434E-04	-8.012E-06	1.582E+02
1.000 L	-1.013E-05	-1.091E-05	-1.226E+01	-2.574E-04	2.155E-12	-9.732E-05

***** BEAM FORCES *****						
BEAM No. = 4						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-1.206E+00	1.336E+01	-2.243E+02	0.000E+00	0.000E+00
0.100 L	1.859E+01	-1.166E+00	1.321E+01	-2.302E+02	1.542E+00	1.302E+02
0.200 L	3.613E+01	-9.778E-01	1.251E+01	-2.048E+02	4.644E+00	3.589E+02
0.300 L	5.102E+01	-4.420E-01	1.055E+01	-1.684E+02	1.095E+01	5.273E+02
0.400 L	6.138E+01	6.901E-01	6.443E+00	-9.641E+01	2.113E+01	6.585E+02
0.500 L	6.738E+01	2.815E-07	-6.269E-07	1.180E-05	2.178E+01	6.943E+02
0.600 L	6.138E+01	-6.901E-01	-6.443E+00	9.641E+01	2.113E+01	6.585E+02
0.700 L	5.102E+01	4.420E-01	-1.055E+01	1.684E+02	1.095E+01	5.273E+02
0.800 L	3.613E+01	9.778E-01	-1.251E+01	2.048E+02	4.644E+00	3.589E+02
0.900 L	1.859E+01	1.166E+00	-1.321E+01	2.202E+02	1.542E+00	1.302E+02
1.000 L	-5.707E-06	1.206E+00	-1.336E+01	2.243E+02	-1.152E-06	-5.575E-05

***** BEAM FORCES *****						
BEAM No. = 5						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	9.378E-01	5.703E+00	-1.715E+02	0.000E+00	0.000E+00
0.100 L	3.796E+00	8.975E-01	5.382E+00	-1.630E+02	3.196E+00	1.058E+02
0.200 L	7.237E+00	8.011E-01	4.478E+00	-1.383E+02	6.441E+00	1.994E+02
0.300 L	1.014E+01	6.761E-01	3.150E+00	-9.952E+01	9.726E+00	2.697E+02
0.400 L	1.231E+01	4.081E-01	1.616E+00	-5.189E+01	1.244E+01	3.109E+02
0.500 L	1.304E+01	-4.352E-08	-2.414E-07	7.415E-06	1.322E+01	3.250E+02
0.600 L	1.231E+01	-4.081E-01	-1.616E+00	5.189E+01	1.244E+01	3.109E+02
0.700 L	1.014E+01	-6.761E-01	-3.150E+00	9.952E+01	9.726E+00	2.697E+02
0.800 L	7.237E+00	-8.011E-01	-4.478E+00	1.383E+02	6.441E+00	1.994E+02
0.900 L	3.796E+00	-8.975E-01	-5.382E+00	1.630E+02	3.196E+00	1.058E+02
1.000 L	-1.069E-06	-9.378E-01	-5.703E+00	1.715E+02	-9.941E-07	-2.936E-05

***** FIBER STRESS OF BEAM *****						
BEAM No. 1						
AT POINT	-5.00	0.00	5.00	0.00	5.00	20.00
	-5.00	0.00	5.00	0.00	5.00	20.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-1.681E-01	-1.873E-01	1.302E-01	1.493E-01	1.302E-01	1.493E-01
0.200L	-3.159E-01	-3.546E-01	2.435E-01	2.822E-01	2.435E-01	2.822E-01
0.300L	-4.261E-01	-4.845E-01	3.247E-01	3.831E-01	3.247E-01	3.831E-01
0.400L	-4.906E-01	-5.652E-01	3.675E-01	4.422E-01	3.675E-01	4.422E-01
0.500L	-5.130E-01	-5.923E-01	3.825E-01	4.619E-01	3.825E-01	4.619E-01
0.600L	-4.906E-01	-5.652E-01	3.675E-01	4.422E-01	3.675E-01	4.422E-01
0.700L	-4.261E-01	-4.845E-01	3.247E-01	3.831E-01	3.247E-01	3.831E-01
0.800L	-3.159E-01	-3.546E-01	2.435E-01	2.822E-01	2.435E-01	2.822E-01
0.900L	-1.681E-01	-1.873E-01	1.302E-01	1.493E-01	1.302E-01	1.493E-01
1.000L	4.641E-08	5.237E-08	-3.572E-08	-4.169E-08	-3.572E-08	-4.169E-08

***** FIBER STRESS OF BEAM *****						
BEAM No. 2						
AT POINT	-5.00	0.00	5.00	0.00	5.00	20.00
	-5.00	0.00	5.00	0.00	5.00	20.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-3.585E-01	-3.678E-01	1.727E-01	1.819E-01	1.727E-01	1.819E-01
0.200L	-7.050E-01	-7.329E-01	3.438E-01	3.716E-01	3.438E-01	3.716E-01
0.300L	-1.013E+00	-1.079E+00	5.029E-01	5.687E-01	5.029E-01	5.687E-01
0.400L	-1.231E+00	-1.358E+00	6.174E-01	7.442E-01	6.174E-01	7.442E-01
0.500L	-1.313E+00	-1.444E+00	6.392E-01	7.699E-01	6.392E-01	7.699E-01
0.600L	-1.231E+00	-1.358E+00	6.174E-01	7.442E-01	6.174E-01	7.442E-01
0.700L	-1.013E+00	-1.079E+00	5.029E-01	5.687E-01	5.029E-01	5.687E-01
0.800L	-7.050E-01	-7.329E-01	3.438E-01	3.716E-01	3.438E-01	3.716E-01
0.900L	-3.585E-01	-3.678E-01	1.727E-01	1.819E-01	1.727E-01	1.819E-01
1.000L	1.087E-07	1.156E-07	-5.163E-08	-5.854E-08	-5.163E-08	-5.854E-08

***** FIBER STRESS OF BEAM *****						
BEAM No. 3						
AT POINT	-5.00	0.00	5.00	0.00	5.00	20.00
	-5.00	0.00	5.00	0.00	5.00	20.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-3.267E-01	-3.267E-01	1.478E-01	1.478E-01	1.478E-01	1.478E-01
0.200L	-7.048E-01	-7.048E-01	3.129E-01	3.129E-01	3.129E-01	3.129E-01
0.300L	-1.208E+00	-1.208E+00	5.277E-01	5.277E-01	5.277E-01	5.277E-01
0.400L	-1.955E+00	-1.955E+00	8.669E-01	8.669E-01	8.669E-01	8.669E-01
0.500L	-3.041E+00	-3.041E+00	1.460E+00	1.460E+00	1.460E+00	1.460E+00
0.600L	-1.955E+00	-1.955E+00	8.669E-01	8.669E-01	8.669E-01	8.669E-01
0.700L	-1.208E+00	-1.208E+00	5.277E-01	5.277E-01	5.277E-01	5.277E-01
0.800L	-7.048E-01	-7.048E-01	3.129E-01	3.129E-01	3.129E-01	3.129E-01
0.900L	-3.267E-01	-3.267E-01	1.478E-01	1.478E-01	1.478E-01	1.478E-01
1.000L	1.966E-07	1.966E-07	-9.533E-08	-9.533E-08	-9.533E-08	-9.533E-08

***** FIBER STRESS OF BEAM *****							
BEAM No. 4							
AT POINT	-5.00	0.00	5.00	0.00	5.00	20.00	-5.00 20.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.100L	-3.678E-01	-3.585E-01	-3.585E-01	1.819E-01	1.727E-01		
0.200L	-7.329E-01	-7.050E-01	-7.050E-01	3.716E-01	3.438E-01		
0.300L	-1.079E+00	-1.013E+00	-1.013E+00	5.687E-01	5.029E-01		
0.400L	-1.358E+00	-1.231E+00	-1.231E+00	7.442E-01	6.174E-01		
0.500L	-1.444E+00	-1.313E+00	-1.313E+00	7.699E-01	6.392E-01		
0.600L	-1.358E+00	-1.231E+00	-1.231E+00	7.442E-01	6.174E-01		
0.700L	-1.079E+00	-1.013E+00	-1.013E+00	5.687E-01	5.029E-01		
0.800L	-7.329E-01	-7.050E-01	-7.050E-01	3.716E-01	3.438E-01		
0.900L	-3.678E-01	-3.585E-01	-3.585E-01	1.819E-01	1.727E-01		
1.000L	1.136E-07	1.087E-07	1.087E-07	-5.854E-08	-5.163E-08		

***** FIBER STRESS OF BEAM *****							
BEAM No. 5							
AT POINT	-5.00	0.00	5.00	0.00	5.00	20.00	-5.00 20.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	
0.100L	-1.373E-01	-1.681E-01	-1.681E-01	1.493E-01	1.302E-01		
0.200L	-3.546E-01	-3.159E-01	-3.159E-01	2.822E-01	2.435E-01		
0.300L	-4.845E-01	-4.261E-01	-4.261E-01	3.831E-01	3.247E-01		
0.400L	-5.652E-01	-4.906E-01	-4.906E-01	4.422E-01	3.675E-01		
0.500L	-5.923E-01	-5.130E-01	-5.130E-01	4.619E-01	3.825E-01		
0.600L	-5.652E-01	-4.906E-01	-4.906E-01	4.422E-01	3.675E-01		
0.700L	-4.845E-01	-4.261E-01	-4.261E-01	3.831E-01	3.247E-01		
0.800L	-3.546E-01	-3.159E-01	-3.159E-01	2.822E-01	2.435E-01		
0.900L	-1.373E-01	-1.681E-01	-1.681E-01	1.493E-01	1.302E-01		
1.000L	5.237E-05	4.641E-05	4.641E-05	-4.169E-08	-3.572E-08		

***** INTERNAL FORCES OF SHEAR KEY *****

LEFT SHEAR KEYS NO. 1

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	1.610E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	1.527E-01	3.165E-03	-2.631E-02	-5.923E-01
0.200L	1.329E-01	4.553E-03	-4.793E-02	-1.142E+00
0.300L	1.085E-01	6.626E-03	-6.106E-02	-1.590E+00
0.400L	6.592E-02	1.715E-02	-6.586E-02	-1.879E+00
0.500L	-7.710E-09	9.083E-03	-6.863E-02	-1.996E+00
0.600L	-6.592E-02	1.715E-02	-6.586E-02	-1.879E+00
0.700L	-1.085E-01	6.626E-03	-6.106E-02	-1.590E+00
0.800L	-1.329E-01	4.553E-03	-4.793E-02	-1.142E+00
0.900L	-1.527E-01	3.165E-03	-2.631E-02	-5.923E-01
1.000L	-1.610E-01	7.314E-10	6.964E-09	1.752E-07

***** INTERNAL FORCES OF SHEAR KEY *****

RIGHT SHEAR KEY NO. 1

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	5.164E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	5.057E-01	9.106E-03	2.631E-02	-1.970E-01
0.200L	4.610E-01	3.738E-02	4.793E-02	-2.964E-01
0.300L	3.477E-01	7.825E-02	6.106E-02	-2.420E-01
0.400L	1.381E-01	6.932E-02	6.586E-02	-9.686E-02
0.500L	-3.720E-03	-2.245E-02	6.863E-02	-6.344E-02
0.600L	-1.381E-01	6.932E-02	6.586E-02	-9.686E-02
0.700L	-3.477E-01	7.825E-02	6.106E-02	-2.420E-01
0.800L	-4.610E-01	3.738E-02	4.793E-02	-2.964E-01
0.900L	-5.057E-01	9.106E-03	2.631E-02	-1.970E-01
1.000L	-5.164E-01	1.242E-09	-6.964E-09	3.374E-03

***** INTERNAL FORCES OF SHEAR KEY *****

LEFT SHEAR KEYS NO. 2

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	2.664E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	2.533E-01	-1.299E-02	-4.068E-02	2.011E-01
0.200L	2.309E-01	-5.046E-02	-9.722E-02	1.308E-01
0.300L	1.860E-01	-1.125E-01	-1.817E-01	-4.483E-01
0.400L	1.928E-01	-1.222E-01	-2.903E-01	-1.584E+00
0.500L	5.830E-08	2.218E-01	-3.638E-01	-2.514E+00
0.600L	-1.928E-01	-1.222E-01	-2.903E-01	-1.584E+00
0.700L	-1.860E-01	-1.125E-01	-1.817E-01	-4.483E-01
0.800L	-2.309E-01	-5.046E-02	-9.722E-02	1.308E-01
0.900L	-2.533E-01	-1.299E-02	-4.068E-02	2.011E-01
1.000L	-2.664E-01	-1.541E-08	2.212E-08	8.754E-08

***** INTERNAL FORCES OF SHEAR KEY *****

RIGHT SHEAR KEY NO. 2

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	3.702E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	3.362E-01	-4.213E-02	4.068E-02	-1.422E+00
0.200L	5.170E-01	-6.081E-02	9.722E-02	-3.048E+00
0.300L	6.964E-01	-1.907E-02	1.817E-01	-5.002E+00
0.400L	1.019E+00	1.632E-01	2.903E-01	-7.126E+00
0.500L	2.891E-07	6.565E-01	3.638E-01	-8.398E+00
0.600L	-1.019E+00	1.632E-01	2.903E-01	-7.126E+00
0.700L	-6.964E-01	-1.907E-02	1.817E-01	-5.002E+00
0.800L	-5.170E-01	-6.081E-02	9.722E-02	-3.048E+00
0.900L	-3.362E-01	-4.213E-02	4.068E-02	-1.422E+00
1.000L	-3.702E-01	-3.139E-08	-2.212E-08	5.760E-07

***** INTERNAL FORCES OF SHEAR KEY *****

LEFT SHEAR KEYS NO. 3

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	3.702E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	3.862E-01	4.213E-02	4.068E-02	1.422E+00
0.200L	5.170E-01	6.081E-02	9.722E-02	3.048E+00
0.300L	6.964E-01	1.907E-02	1.817E-01	5.002E+00
0.400L	1.019E+00	-1.632E-01	2.903E-01	7.126E+00
0.500L	2.891E-07	-6.565E-01	3.638E-01	8.398E+00
0.600L	-1.019E+00	-1.632E-01	2.903E-01	7.126E+00
0.700L	-6.964E-01	1.907E-02	1.817E-01	5.002E+00
0.800L	-5.170E-01	6.081E-02	9.722E-02	3.048E+00
0.900L	-3.862E-01	4.213E-02	4.068E-02	1.422E+00
1.000L	-3.702E-01	3.139E-08	-2.212E-08	-5.760E-07

***** INTERNAL FORCES OF SHEAR KEY *****

RIGHT SHEAR KEY NO. 3

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	2.664E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	2.533E-01	1.299E-02	-4.068E-02	-2.011E-01
0.200L	2.309E-01	5.046E-02	-9.722E-02	-1.309E-01
0.300L	1.860E-01	1.125E-01	-1.817E-01	4.483E-01
0.400L	1.928E-01	1.222E-01	-2.903E-01	1.584E+00
0.500L	5.830E-08	-2.218E-01	-3.638E-01	2.514E+00
0.600L	-1.928E-01	1.222E-01	-2.903E-01	1.584E+00
0.700L	-1.860E-01	1.125E-01	-1.817E-01	4.483E-01
0.800L	-2.309E-01	5.046E-02	-9.722E-02	-1.309E-01
0.900L	-2.533E-01	1.299E-02	-4.068E-02	-2.011E-01
1.000L	-2.664E-01	1.541E-08	2.212E-08	-5.754E-08

***** INTERNAL FORCES OF SHEAR KEY *****

LEFT SHEAR KEYS NO. 4

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	5.164E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	5.057E-01	-9.106E-03	2.631E-02	1.970E-01
0.200L	4.610E-01	-3.738E-02	4.793E-02	2.964E-01
0.300L	3.477E-01	-7.825E-02	6.106E-02	2.420E-01
0.400L	1.381E-01	-6.932E-02	6.586E-02	9.686E-02
0.500L	-3.720E-02	2.245E-02	6.863E-02	6.344E-02
0.600L	-1.351E-01	-6.932E-02	6.586E-02	9.686E-02
0.700L	-3.477E-01	-7.825E-02	6.106E-02	2.420E-01
0.800L	-4.610E-01	-3.738E-02	4.793E-02	2.964E-01
0.900L	-5.057E-01	-9.106E-03	2.631E-02	1.970E-01
1.000L	-5.164E-01	-1.242E-09	-6.964E-09	-3.374E-08

***** INTERNAL FORCES OF SHEAR KEY *****

RIGHT SHEAR KEY NO. 4

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	1.610E-01	0.000E+00	0.000E+00	0.000E+00
0.100L	1.527E-01	-3.165E-03	-2.631E-02	5.923E-01
0.200L	1.329E-01	-4.553E-03	-4.793E-02	1.142E+00
0.300L	1.085E-01	-6.627E-03	-6.106E-02	1.590E+00
0.400L	6.592E-02	-1.716E-02	-6.586E-02	1.879E+00
0.500L	-7.710E-09	-9.084E-03	-6.863E-02	1.996E+00
0.600L	-6.592E-02	-1.716E-02	-6.586E-02	1.879E+00
0.700L	-1.085E-01	-6.627E-03	-6.106E-02	1.590E+00
0.800L	-1.329E-01	-4.553E-03	-4.793E-02	1.142E+00
0.900L	-1.527E-01	-3.165E-03	-2.631E-02	5.923E-01
1.000L	-1.610E-01	-7.314E-10	6.964E-09	-1.752E-07

```
*****
                        OUTPUT RESULTS OF MULTIBEAM STRUCTURES
DATE       : 06-15-1995      PROJECT TITLE : CENTER PORT BRIDGE
FILENAME   : TRUSS          ENGINEER      : N.SOMCHAI
*****
```

STRUCTURE IDENTIFICATION

```
NO. OF BEAMS      =      9
NO. OF BEAM TYPE  =      1
SPAN LENGTH       =     384
UNIT OF LENGTH    =     INCHES
```

BEAM TYPE DISTRIBUTION [BEAM NO./BEAM TYPE]

```
1/ 1   2/ 1   3/ 1   4/ 1   5/ 1   6/ 1   7/ 1
8/ 1   9/ 1
```

BEAM TYPE 1 (BOX SECTION)

```
DIMENSION
(1)  =  36.000      E-MOD = 0.58E+04
(2)  =  11.000      POIS  =  0
(3)  =  21.000      AREA  =  492
(4)  =  12.000      I-Y   =  24615
(5)  =  0.000      I-Z   =  57602
(6)  =  0.000      J     =  28549.24
(BOXES) =  2      C     =  2900
```

TRUSS TYPE SHEAR KEY

```
NO. OF SHEAR KEY =      2
```

SHEAR KEY TYPE DISTRIBUTION [SHEAR KEY NO./SHEAR KEY TYPE]

```
1/ 1   2/ 1   3/ 1   4/ 1   5/ 2   6/ 2   7/ 2
8/ 2
```

KEY NO.	E-MOD	THK.	HZ	VC	L.LEVEL	R.LEVEL	KX	KO
1	0.2E+04	1.00	0.75	3.50	8.75	5.25	0.0E+00	0.0E+00
2	0.2E+04	1.00	0.75	-3.50	5.25	8.75	0.0E+00	0.0E+00

LOAD DATA

```
UNIT OF FORCES      =  KIPS
NUMBER OF LOAD      =  1
NUMBER OF HARMONICS  =  49 @ 2
```

```
LOAD ON BEAM NUMBER =  5
LOAD MAGNITUDE      =  47.7
WIDTH OF LOAD       =  0
LENGTH OF LOAD      =  10
LONGITUDINAL POSITION OF LOAD CENTROID =  192
LOAD ECCENTRICITY    =  0
LOAD TYPE           =  CONCEN
```

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 1				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-7.860E-04	8.383E-03	1.699E-05
0.200L	0.000E+00	-1.496E-03	1.634E-02	3.255E-05
0.300L	0.000E+00	-2.061E-03	2.251E-02	4.520E-05
0.400L	0.000E+00	-2.425E-03	2.648E-02	5.353E-05
0.500L	0.000E+00	-2.551E-03	2.786E-02	5.643E-05
0.600L	0.000E+00	-2.425E-03	2.648E-02	5.353E-05
0.700L	0.000E+00	-2.061E-03	2.251E-02	4.520E-05
0.800L	0.000E+00	-1.496E-03	1.634E-02	3.255E-05
0.900L	0.000E+00	-7.860E-04	8.383E-03	1.699E-05
1.000L	0.000E+00	2.228E-10	-2.433E-09	-4.887E-12

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 2				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-9.072E-04	9.906E-03	5.443E-05
0.200L	0.000E+00	-1.729E-03	1.888E-02	1.048E-04
0.300L	0.000E+00	-2.387E-03	2.606E-02	1.464E-04
0.400L	0.000E+00	-2.812E-03	3.071E-02	1.741E-04
0.500L	0.000E+00	-2.959E-03	3.232E-02	1.839E-04
0.600L	0.000E+00	-2.812E-03	3.071E-02	1.741E-04
0.700L	0.000E+00	-2.387E-03	2.606E-02	1.464E-04
0.800L	0.000E+00	-1.729E-03	1.888E-02	1.048E-04
0.900L	0.000E+00	-9.072E-04	9.906E-03	5.443E-05
1.000L	0.000E+00	2.580E-10	-2.817E-09	-1.585E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 3				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-1.162E-03	1.268E-02	9.720E-05
0.200L	0.000E+00	-2.224E-03	2.428E-02	1.894E-04
0.300L	0.000E+00	-3.086E-03	3.370E-02	2.693E-04
0.400L	0.000E+00	-3.653E-03	3.988E-02	3.250E-04
0.500L	0.000E+00	-3.850E-03	4.204E-02	3.446E-04
0.600L	0.000E+00	-3.653E-03	3.988E-02	3.250E-04
0.700L	0.000E+00	-3.086E-03	3.370E-02	2.693E-04
0.800L	0.000E+00	-2.224E-03	2.428E-02	1.894E-04
0.900L	0.000E+00	-1.162E-03	1.268E-02	9.720E-05
1.000L	0.000E+00	3.336E-10	-3.642E-09	-2.901E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 4				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-1.568E-03	1.712E-02	1.462E-04
0.200L	0.000E+00	-3.023E-03	3.301E-02	2.890E-04
0.300L	0.000E+00	-4.246E-03	4.637E-02	4.230E-04
0.400L	0.000E+00	-5.100E-03	5.569E-02	5.354E-04
0.500L	0.000E+00	-5.417E-03	5.916E-02	5.875E-04
0.600L	0.000E+00	-5.100E-03	5.569E-02	5.354E-04
0.700L	0.000E+00	-4.246E-03	4.637E-02	4.230E-04
0.800L	0.000E+00	-3.023E-03	3.301E-02	2.890E-04
0.900L	0.000E+00	-1.568E-03	1.712E-02	1.462E-04
1.000L	0.000E+00	4.592E-10	-5.015E-09	-4.633E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 5				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	-1.172E-08	2.004E-02	2.446E-09
0.200L	0.000E+00	-2.234E-08	3.876E-02	4.635E-09
0.300L	0.000E+00	-3.084E-08	5.476E-02	6.350E-09
0.400L	0.000E+00	-3.633E-08	6.640E-02	7.436E-09
0.500L	0.000E+00	-3.824E-08	7.124E-02	7.808E-09
0.600L	0.000E+00	-3.633E-08	6.640E-02	7.436E-09
0.700L	0.000E+00	-3.084E-08	5.476E-02	6.350E-09
0.800L	0.000E+00	-2.234E-08	3.876E-02	4.635E-09
0.900L	0.000E+00	-1.172E-08	2.004E-02	2.446E-09
1.000L	0.000E+00	3.334E-15	-5.978E-09	-6.859E-16

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 6				
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.568E-03	1.712E-02	-1.462E-04
0.200L	0.000E+00	3.023E-03	3.301E-02	-2.890E-04
0.300L	0.000E+00	4.246E-03	4.637E-02	-4.230E-04
0.400L	0.000E+00	5.100E-03	5.569E-02	-5.354E-04
0.500L	0.000E+00	5.417E-03	5.916E-02	-5.875E-04
0.600L	0.000E+00	5.100E-03	5.569E-02	-5.354E-04
0.700L	0.000E+00	4.246E-03	4.637E-02	-4.230E-04
0.800L	0.000E+00	3.023E-03	3.301E-02	-2.890E-04
0.900L	0.000E+00	1.568E-03	1.712E-02	-1.462E-04
1.000L	0.000E+00	-4.592E-10	-5.015E-09	4.633E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 7

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.162E-03	1.268E-02	-9.720E-05
0.200L	0.000E+00	2.224E-03	2.428E-02	-1.894E-04
0.300L	0.000E+00	3.086E-03	3.370E-02	-2.693E-04
0.400L	0.000E+00	3.652E-03	3.988E-02	-3.250E-04
0.500L	0.000E+00	3.850E-03	4.204E-02	-3.446E-04
0.600L	0.000E+00	3.652E-03	3.988E-02	-3.250E-04
0.700L	0.000E+00	3.086E-03	3.370E-02	-2.693E-04
0.800L	0.000E+00	2.224E-03	2.428E-02	-1.894E-04
0.900L	0.000E+00	1.162E-03	1.268E-02	-9.720E-05
1.000L	0.000E+00	-3.336E-10	-3.642E-09	2.901E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 8

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	9.072E-04	9.906E-03	-5.443E-05
0.200L	0.000E+00	1.729E-03	1.888E-02	-1.048E-04
0.300L	0.000E+00	2.387E-03	2.606E-02	-1.464E-04
0.400L	0.000E+00	2.812E-03	3.071E-02	-1.741E-04
0.500L	0.000E+00	2.959E-03	3.231E-02	-1.839E-04
0.600L	0.000E+00	2.812E-03	3.071E-02	-1.741E-04
0.700L	0.000E+00	2.387E-03	2.606E-02	-1.464E-04
0.800L	0.000E+00	1.729E-03	1.888E-02	-1.048E-04
0.900L	0.000E+00	9.072E-04	9.906E-03	-5.443E-05
1.000L	0.000E+00	-2.580E-10	-2.817E-09	1.585E-11

***** DISPLACEMENTS OF BEAMS AT C.G. *****

BEAM No. = 9

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	7.859E-04	8.583E-03	-1.699E-05
0.200L	0.000E+00	1.496E-03	1.634E-02	-3.255E-05
0.300L	0.000E+00	2.061E-03	2.251E-02	-4.520E-05
0.400L	0.000E+00	2.425E-03	2.648E-02	-5.353E-05
0.500L	0.000E+00	2.551E-03	2.786E-02	-5.643E-05
0.600L	0.000E+00	2.425E-03	2.648E-02	-5.353E-05
0.700L	0.000E+00	2.061E-03	2.251E-02	-4.520E-05
0.800L	0.000E+00	1.496E-03	1.634E-02	-3.255E-05
0.900L	0.000E+00	7.859E-04	8.583E-03	-1.699E-05
1.000L	0.000E+00	-2.228E-10	-2.433E-09	4.887E-12

***** BEAM FORCES *****						
BEAM No. = 1						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-4.563E-01	2.129E+00	3.753E+01	0.000E+00	0.000E+00
0.100 L	0.000E+00	-4.376E-01	2.042E+00	3.399E+01	-1.728E+01	8.065E+01
0.200 L	0.000E+00	-3.802E-01	1.774E+00	3.127E+01	-3.311E+01	1.545E+02
0.300 L	0.000E+00	-2.838E-01	1.324E+00	2.334E+01	-4.593E+01	2.146E+02
0.400 L	0.000E+00	-1.521E-01	7.098E-01	1.251E+01	-5.445E+01	2.541E+02
0.500 L	0.000E+00	2.055E-08	-9.590E-08	-1.690E-06	-5.740E+01	2.679E+02
0.600 L	0.000E+00	1.521E-01	-7.098E-01	-1.251E+01	-5.445E+01	2.541E+02
0.700 L	0.000E+00	2.838E-01	-1.324E+00	-2.334E+01	-4.593E+01	2.146E+02
0.800 L	0.000E+00	3.802E-01	-1.774E+00	-3.127E+01	-3.311E+01	1.545E+02
0.900 L	0.000E+00	4.376E-01	-2.042E+00	-3.399E+01	-1.728E+01	8.065E+01
1.000 L	0.000E+00	4.563E-01	-2.129E+00	-3.753E+01	4.971E-06	-2.320E-05

***** BEAM FORCES *****						
BEAM No. = 2						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-5.073E-01	2.368E+00	1.200E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-4.949E-01	2.310E+00	1.158E+02	-1.933E+01	9.020E+01
0.200 L	0.000E+00	-4.478E-01	2.090E+00	1.020E+02	-3.758E+01	1.753E+02
0.300 L	0.000E+00	-3.466E-01	1.617E+00	7.717E+01	-5.302E+01	2.474E+02
0.400 L	0.000E+00	-1.941E-01	9.056E-01	4.205E+01	-6.354E+01	2.965E+02
0.500 L	0.000E+00	2.347E-08	-1.095E-07	-5.455E-06	-6.739E+01	3.144E+02
0.600 L	0.000E+00	1.941E-01	-9.056E-01	-4.205E+01	-6.354E+01	2.965E+02
0.700 L	0.000E+00	3.466E-01	-1.617E+00	-7.717E+01	-5.302E+01	2.474E+02
0.800 L	0.000E+00	4.478E-01	-2.090E+00	-1.020E+02	-3.758E+01	1.753E+02
0.900 L	0.000E+00	4.949E-01	-2.310E+00	-1.158E+02	-1.933E+01	9.020E+01
1.000 L	0.000E+00	5.073E-01	-2.368E+00	-1.200E+02	5.763E-06	-2.689E-05

***** BEAM FORCES *****						
BEAM No. = 3						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-5.858E-01	2.734E+00	2.134E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-5.889E-01	2.748E+00	2.084E+02	-2.253E+01	1.051E+02
0.200 L	0.000E+00	-5.937E-01	2.771E+00	1.908E+02	-4.527E+01	2.112E+02
0.300 L	0.000E+00	-5.449E-01	2.543E+00	1.529E+02	-6.750E+01	3.150E+02
0.400 L	0.000E+00	-3.106E-01	1.450E+00	8.491E+01	-8.462E+01	3.949E+02
0.500 L	0.000E+00	3.647E-08	-1.702E-07	-1.055E-05	-9.031E+01	4.214E+02
0.600 L	0.000E+00	3.106E-01	-1.450E+00	-8.491E+01	-8.462E+01	3.949E+02
0.700 L	0.000E+00	5.449E-01	-2.543E+00	-1.529E+02	-6.750E+01	3.150E+02
0.800 L	0.000E+00	5.937E-01	-2.771E+00	-1.908E+02	-4.527E+01	2.112E+02
0.900 L	0.000E+00	5.889E-01	-2.748E+00	-2.084E+02	-2.253E+01	1.051E+02
1.000 L	0.000E+00	5.858E-01	-2.734E+00	-2.134E+02	7.131E-06	-3.327E-05

***** BEAM FORCES *****						
BEAM No. = 4						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	-6.570E-01	3.066E+00	3.198E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	-6.725E-01	3.138E+00	3.162E+02	-2.542E+01	1.186E+02
0.200 L	0.000E+00	-7.322E-01	3.417E+00	3.040E+02	-3.218E+01	2.435E+02
0.300 L	0.000E+00	-9.030E-01	4.214E+00	2.758E+02	-8.307E+01	3.876E+02
0.400 L	0.000E+00	-1.075E+00	5.015E+00	2.010E+02	-1.222E+02	5.701E+02
0.500 L	0.000E+00	-3.668E-08	1.712E-07	-1.079E-05	-1.491E+02	6.958E+02
0.600 L	0.000E+00	1.075E+00	-5.015E+00	-2.010E+02	-1.222E+02	5.701E+02
0.700 L	0.000E+00	9.030E-01	-4.214E+00	-2.758E+02	-8.307E+01	3.876E+02
0.800 L	0.000E+00	7.322E-01	-3.417E+00	-3.040E+02	-3.218E+01	2.435E+02
0.900 L	0.000E+00	6.725E-01	-3.138E+00	-3.162E+02	-2.542E+01	1.186E+02
1.000 L	0.000E+00	6.570E-01	-3.066E+00	-3.198E+02	9.875E-06	-4.608E-05

***** BEAM FORCES *****						
BEAM No. = 5						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	6.574E-05	3.389E+00	5.425E-03	0.000E+00	0.000E+00
0.100 L	0.000E+00	6.272E-05	3.235E+00	5.137E-03	-2.480E-04	1.265E+02
0.200 L	0.000E+00	5.382E-05	3.910E+00	4.322E-03	-4.855E-04	2.624E+02
0.300 L	0.000E+00	3.942E-05	4.231E+00	3.096E-03	-6.859E-04	4.181E+02
0.400 L	0.000E+00	2.072E-05	3.107E+00	1.607E-03	-8.212E-04	6.324E+02
0.500 L	0.000E+00	-3.926E-12	5.307E-06	-2.340E-10	-8.698E-04	1.119E+03
0.600 L	0.000E+00	-2.072E-05	3.107E+00	-1.607E-03	-8.212E-04	6.324E+02
0.700 L	0.000E+00	-3.942E-05	-4.231E+00	-3.096E-03	-6.859E-04	4.181E+02
0.800 L	0.000E+00	-5.382E-05	-3.910E+00	-4.322E-03	-4.855E-04	2.624E+02
0.900 L	0.000E+00	-6.272E-05	-3.235E+00	-5.137E-03	-2.480E-04	1.265E+02
1.000 L	0.000E+00	-6.574E-05	-3.389E+00	-5.425E-03	7.483E-11	-3.299E-05

***** BEAM FORCES *****						
BEAM No. = 6						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	6.563E-01	3.065E+00	-3.198E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	6.723E-01	3.138E+00	-3.162E+02	2.542E+01	1.186E+02
0.200 L	0.000E+00	7.320E-01	3.416E+00	-3.040E+02	3.218E+01	2.435E+02
0.300 L	0.000E+00	9.029E-01	4.213E+00	-2.758E+02	8.307E+01	3.876E+02
0.400 L	0.000E+00	1.075E+00	5.015E+00	-2.010E+02	1.222E+02	5.701E+02
0.500 L	0.000E+00	3.669E-08	1.712E-07	1.079E-05	1.491E+02	6.958E+02
0.600 L	0.000E+00	-1.075E+00	-5.015E+00	2.010E+02	1.222E+02	5.701E+02
0.700 L	0.000E+00	-9.029E-01	-4.213E+00	2.758E+02	8.307E+01	3.876E+02
0.800 L	0.000E+00	-7.320E-01	-3.416E+00	3.040E+02	3.218E+01	2.435E+02
0.900 L	0.000E+00	-6.723E-01	-3.138E+00	3.162E+02	2.542E+01	1.186E+02
1.000 L	0.000E+00	-6.563E-01	-3.065E+00	3.198E+02	-9.875E-06	-4.608E-05

***** BEAM FORCES *****						
BEAM No. = 7						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	5.858E-01	2.734E+00	-2.135E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	5.890E-01	2.749E+00	-2.084E+02	2.253E+01	1.051E+02
0.200 L	0.000E+00	5.937E-01	2.771E+00	-1.908E+02	4.526E+01	2.112E+02
0.300 L	0.000E+00	5.449E-01	2.543E+00	-1.529E+02	6.750E+01	3.150E+02
0.400 L	0.000E+00	3.106E-01	1.450E+00	-8.492E+01	8.462E+01	3.949E+02
0.500 L	0.000E+00	-3.647E-08	-1.702E-07	1.055E-05	9.031E+01	4.214E+02
0.600 L	0.000E+00	-3.106E-01	-1.450E+00	8.492E+01	8.462E+01	3.949E+02
0.700 L	0.000E+00	-5.449E-01	-2.543E+00	1.529E+02	6.750E+01	3.150E+02
0.800 L	0.000E+00	-5.937E-01	-2.771E+00	1.908E+02	4.526E+01	2.112E+02
0.900 L	0.000E+00	-5.890E-01	-2.749E+00	2.084E+02	2.253E+01	1.051E+02
1.000 L	0.000E+00	-5.858E-01	-2.734E+00	2.135E+02	-7.131E-06	-3.327E-05

***** BEAM FORCES *****						
BEAM No. = 8						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	5.075E-01	2.368E+00	-1.200E+02	0.000E+00	0.000E+00
0.100 L	0.000E+00	4.950E-01	2.310E+00	-1.158E+02	1.933E+01	9.020E+01
0.200 L	0.000E+00	4.479E-01	2.090E+00	-1.020E+02	3.758E+01	1.753E+02
0.300 L	0.000E+00	3.466E-01	1.618E+00	-7.717E+01	5.302E+01	2.474E+02
0.400 L	0.000E+00	1.941E-01	9.057E-01	-4.205E+01	6.354E+01	2.965E+02
0.500 L	0.000E+00	-2.348E-08	-1.096E-07	5.455E-06	6.739E+01	3.144E+02
0.600 L	0.000E+00	-1.941E-01	-9.057E-01	4.205E+01	6.354E+01	2.965E+02
0.700 L	0.000E+00	-3.466E-01	-1.618E+00	7.717E+01	5.302E+01	2.474E+02
0.800 L	0.000E+00	-4.479E-01	-2.090E+00	1.020E+02	3.758E+01	1.753E+02
0.900 L	0.000E+00	-4.950E-01	-2.310E+00	1.158E+02	1.933E+01	9.020E+01
1.000 L	0.000E+00	-5.075E-01	-2.368E+00	1.200E+02	-5.763E-06	-2.689E-05

***** BEAM FORCES *****						
BEAM No. = 9						
AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	TORSION	M-ZZ	M-YY
0.000 L	0.000E+00	4.563E-01	2.129E+00	-3.753E+01	0.000E+00	0.000E+00
0.100 L	0.000E+00	4.376E-01	2.042E+00	-3.599E+01	1.728E+01	8.065E+01
0.200 L	0.000E+00	3.802E-01	1.774E+00	-3.127E+01	3.311E+01	1.545E+02
0.300 L	0.000E+00	2.838E-01	1.324E+00	-2.334E+01	4.598E+01	2.146E+02
0.400 L	0.000E+00	1.521E-01	7.098E-01	-1.251E+01	5.445E+01	2.541E+02
0.500 L	0.000E+00	-2.055E-08	-9.590E-08	1.690E-06	5.740E+01	2.679E+02
0.600 L	0.000E+00	-1.521E-01	-7.098E-01	1.251E+01	5.445E+01	2.541E+02
0.700 L	0.000E+00	-2.838E-01	-1.324E+00	2.334E+01	4.598E+01	2.146E+02
0.800 L	0.000E+00	-3.802E-01	-1.774E+00	3.127E+01	3.311E+01	1.545E+02
0.900 L	0.000E+00	-4.376E-01	-2.042E+00	3.599E+01	1.728E+01	8.065E+01
1.000 L	0.000E+00	-4.563E-01	-2.129E+00	3.753E+01	-4.971E-06	-2.320E-05

***** FIBER STRESS OF BEAM *****							
BEAM No. 1							
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00 21.00
0.000L	0.000E+00		0.000E+00		0.000E+00		0.000E+00
0.100L	-2.900E-02		-3.980E-02		2.900E-02		3.980E-02
0.200L	-5.556E-02		-7.626E-02		5.556E-02		7.626E-02
0.300L	-7.716E-02		-1.059E-01		7.716E-02		1.059E-01
0.400L	-9.137E-02		-1.254E-01		9.137E-02		1.254E-01
0.500L	-9.632E-02		-1.322E-01		9.632E-02		1.322E-01
0.600L	-9.137E-02		-1.254E-01		9.137E-02		1.254E-01
0.700L	-7.716E-02		-1.059E-01		7.716E-02		1.059E-01
0.800L	-5.556E-02		-7.626E-02		5.556E-02		7.626E-02
0.900L	-2.900E-02		-3.980E-02		2.900E-02		3.980E-02
1.000L	8.342E-09		1.145E-08		-8.342E-09		-1.145E-08

***** FIBER STRESS OF BEAM *****							
BEAM No. 3							
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00 21.00
0.000L	0.000E+00		0.000E+00		0.000E+00		0.000E+00
0.100L	-3.244E-02		-4.452E-02		3.244E-02		4.452E-02
0.200L	-6.305E-02		-8.654E-02		6.305E-02		8.654E-02
0.300L	-8.897E-02		-1.221E-01		8.897E-02		1.221E-01
0.400L	-1.066E-01		-1.463E-01		1.066E-01		1.463E-01
0.500L	-1.131E-01		-1.552E-01		1.131E-01		1.552E-01
0.600L	-1.066E-01		-1.463E-01		1.066E-01		1.463E-01
0.700L	-8.897E-02		-1.221E-01		8.897E-02		1.221E-01
0.800L	-6.305E-02		-8.654E-02		6.305E-02		8.654E-02
0.900L	-3.244E-02		-4.452E-02		3.244E-02		4.452E-02
1.000L	9.670E-09		1.327E-08		-9.670E-09		-1.327E-08

***** FIBER STRESS OF BEAM *****							
BEAM No. 3							
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00 21.00
0.000L	0.000E+00		0.000E+00		0.000E+00		0.000E+00
0.100L	-3.781E-02		-5.189E-02		3.781E-02		5.189E-02
0.200L	-7.595E-02		-1.042E-01		7.595E-02		1.042E-01
0.300L	-1.133E-01		-1.554E-01		1.133E-01		1.554E-01
0.400L	-1.420E-01		-1.949E-01		1.420E-01		1.949E-01
0.500L	-1.515E-01		-2.080E-01		1.515E-01		2.080E-01
0.600L	-1.420E-01		-1.949E-01		1.420E-01		1.949E-01
0.700L	-1.133E-01		-1.554E-01		1.133E-01		1.554E-01
0.800L	-7.595E-02		-1.042E-01		7.595E-02		1.042E-01
0.900L	-3.781E-02		-5.189E-02		3.781E-02		5.189E-02
1.000L	1.197E-08		1.642E-08		-1.197E-08		-1.642E-08

***** FIBER STRESS OF BEAM *****								
BEAM No. 4								
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00	21.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-4.266E-02	-5.854E-02	4.266E-02	5.854E-02	4.266E-02	5.854E-02	-4.266E-02	-5.854E-02
0.200L	-8.756E-02	-1.202E-01	8.756E-02	1.202E-01	8.756E-02	1.202E-01	-8.756E-02	-1.202E-01
0.300L	-1.394E-01	-1.913E-01	1.394E-01	1.913E-01	1.394E-01	1.913E-01	-1.394E-01	-1.913E-01
0.400L	-2.050E-01	-2.813E-01	2.050E-01	2.813E-01	2.050E-01	2.813E-01	-2.050E-01	-2.813E-01
0.500L	-2.502E-01	-3.434E-01	2.502E-01	3.434E-01	2.502E-01	3.434E-01	-2.502E-01	-3.434E-01
0.600L	-2.050E-01	-2.813E-01	2.050E-01	2.813E-01	2.050E-01	2.813E-01	-2.050E-01	-2.813E-01
0.700L	-1.394E-01	-1.913E-01	1.394E-01	1.913E-01	1.394E-01	1.913E-01	-1.394E-01	-1.913E-01
0.800L	-8.756E-02	-1.202E-01	8.756E-02	1.202E-01	8.756E-02	1.202E-01	-8.756E-02	-1.202E-01
0.900L	-4.266E-02	-5.854E-02	4.266E-02	5.854E-02	4.266E-02	5.854E-02	-4.266E-02	-5.854E-02
1.000L	1.657E-08	2.274E-08	-1.657E-08	-2.274E-08	1.657E-08	2.274E-08	-1.657E-08	-2.274E-08

***** FIBER STRESS OF BEAM *****								
BEAM No. 5								
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00	21.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-5.398E-02	-5.398E-02	5.398E-02	5.398E-02	5.398E-02	5.398E-02	-5.398E-02	-5.398E-02
0.200L	-1.119E-01	-1.119E-01	1.119E-01	1.119E-01	1.119E-01	1.119E-01	-1.119E-01	-1.119E-01
0.300L	-1.784E-01	-1.784E-01	1.784E-01	1.784E-01	1.784E-01	1.784E-01	-1.784E-01	-1.784E-01
0.400L	-2.698E-01	-2.698E-01	2.698E-01	2.698E-01	2.698E-01	2.698E-01	-2.698E-01	-2.698E-01
0.500L	-4.772E-01	-4.772E-01	4.772E-01	4.772E-01	4.772E-01	4.772E-01	-4.772E-01	-4.772E-01
0.600L	-2.698E-01	-2.698E-01	2.698E-01	2.698E-01	2.698E-01	2.698E-01	-2.698E-01	-2.698E-01
0.700L	-1.784E-01	-1.784E-01	1.784E-01	1.784E-01	1.784E-01	1.784E-01	-1.784E-01	-1.784E-01
0.800L	-1.119E-01	-1.119E-01	1.119E-01	1.119E-01	1.119E-01	1.119E-01	-1.119E-01	-1.119E-01
0.900L	-5.398E-02	-5.398E-02	5.398E-02	5.398E-02	5.398E-02	5.398E-02	-5.398E-02	-5.398E-02
1.000L	3.540E-08	3.540E-08	-3.540E-08	-3.540E-08	3.540E-08	3.540E-08	-3.540E-08	-3.540E-08

***** FIBER STRESS OF BEAM *****								
BEAM No. 6								
AT POINT	-18.00	0.00	18.00	0.00	18.00	21.00	-18.00	21.00
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	-5.854E-02	-4.266E-02	5.854E-02	4.266E-02	5.854E-02	4.266E-02	-5.854E-02	-4.266E-02
0.200L	-1.202E-01	-8.756E-02	1.202E-01	8.756E-02	1.202E-01	8.756E-02	-1.202E-01	-8.756E-02
0.300L	-1.913E-01	-1.394E-01	1.913E-01	1.394E-01	1.913E-01	1.394E-01	-1.913E-01	-1.394E-01
0.400L	-2.813E-01	-2.050E-01	2.813E-01	2.050E-01	2.813E-01	2.050E-01	-2.813E-01	-2.050E-01
0.500L	-3.434E-01	-2.502E-01	3.434E-01	2.502E-01	3.434E-01	2.502E-01	-3.434E-01	-2.502E-01
0.600L	-2.813E-01	-2.050E-01	2.813E-01	2.050E-01	2.813E-01	2.050E-01	-2.813E-01	-2.050E-01
0.700L	-1.913E-01	-1.394E-01	1.913E-01	1.394E-01	1.913E-01	1.394E-01	-1.913E-01	-1.394E-01
0.800L	-1.202E-01	-8.756E-02	1.202E-01	8.756E-02	1.202E-01	8.756E-02	-1.202E-01	-8.756E-02
0.900L	-5.854E-02	-4.266E-02	5.854E-02	4.266E-02	5.854E-02	4.266E-02	-5.854E-02	-4.266E-02
1.000L	2.274E-08	1.657E-08	-2.274E-08	-1.657E-08	2.274E-08	1.657E-08	-2.274E-08	-1.657E-08

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***** FIBER STRESS OF BEAM *****
              BEAM No. 7
AT POINT    -18.00   0.00   18.00   0.00   18.00  21.00   -18.00  21.00

0.000L      0.000E+00   0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.100L     -5.189E-02  -3.781E-02   5.189E-02   3.781E-02
0.200L     -1.042E-01  -7.595E-02   1.042E-01   7.595E-02
0.300L     -1.554E-01  -1.133E-01   1.554E-01   1.133E-01
0.400L     -1.949E-01  -1.420E-01   1.949E-01   1.420E-01
0.500L     -2.080E-01  -1.515E-01   2.080E-01   1.515E-01
0.600L     -1.949E-01  -1.420E-01   1.949E-01   1.420E-01
0.700L     -1.554E-01  -1.133E-01   1.554E-01   1.133E-01
0.800L     -1.042E-01  -7.595E-02   1.042E-01   7.595E-02
0.900L     -5.189E-02  -3.781E-02   5.189E-02   3.781E-02
1.000L      1.642E-08   1.197E-08  -1.642E-08  -1.197E-08
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***** FIBER STRESS OF BEAM *****
              BEAM No. 8
AT POINT    -18.00   0.00   18.00   0.00   18.00  21.00   -18.00  21.00

0.000L      0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.100L     -4.452E-02  -3.244E-02   4.452E-02   3.244E-02
0.200L     -8.654E-02  -6.305E-02   8.654E-02   6.305E-02
0.300L     -1.221E-01  -8.897E-02   1.221E-01   8.897E-02
0.400L     -1.463E-01  -1.066E-01   1.463E-01   1.066E-01
0.500L     -1.552E-01  -1.131E-01   1.552E-01   1.131E-01
0.600L     -1.463E-01  -1.066E-01   1.463E-01   1.066E-01
0.700L     -1.221E-01  -8.897E-02   1.221E-01   8.897E-02
0.800L     -8.654E-02  -6.305E-02   8.654E-02   6.305E-02
0.900L     -4.452E-02  -3.244E-02   4.452E-02   3.244E-02
1.000L      1.327E-08   9.670E-09  -1.327E-08  -9.670E-09
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***** FIBER STRESS OF BEAM *****
              BEAM No. 9
AT POINT    -18.00   0.00   18.00   0.00   18.00  21.00   -18.00  21.00

0.000L      0.000E+00   0.000E+00   0.000E+00   0.000E+00
0.100L     -3.980E-02  -2.900E-02   3.980E-02   2.900E-02
0.200L     -7.626E-02  -5.556E-02   7.626E-02   5.556E-02
0.300L     -1.059E-01  -7.716E-02   1.059E-01   7.716E-02
0.400L     -1.254E-01  -9.137E-02   1.254E-01   9.137E-02
0.500L     -1.322E-01  -9.632E-02   1.322E-01   9.632E-02
0.600L     -1.254E-01  -9.137E-02   1.254E-01   9.137E-02
0.700L     -1.059E-01  -7.716E-02   1.059E-01   7.716E-02
0.800L     -7.626E-02  -5.556E-02   7.626E-02   5.556E-02
0.900L     -3.980E-02  -2.900E-02   3.980E-02   2.900E-02
1.000L      1.145E-08   8.341E-09  -1.145E-08  -8.341E-09
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***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 1

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	9.821E-04	-4.583E-03	0.000E+00
0.200L	0.000E+00	2.008E-03	-9.369E-03	0.000E+00
0.300L	0.000E+00	3.003E-03	-1.401E-02	0.000E+00
0.400L	0.000E+00	3.790E-03	-1.769E-02	0.000E+00
0.500L	0.000E+00	4.038E-03	-1.884E-02	0.000E+00
0.600L	0.000E+00	3.790E-03	-1.769E-02	0.000E+00
0.700L	0.000E+00	3.003E-03	-1.401E-02	0.000E+00
0.800L	0.000E+00	2.008E-03	-9.369E-03	0.000E+00
0.900L	0.000E+00	9.821E-04	-4.583E-03	0.000E+00
1.000L	0.000E+00	-3.160E-10	1.473E-09	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 2

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.675E-03	-7.815E-03	0.000E+00
0.200L	0.000E+00	3.874E-03	-1.808E-02	0.000E+00
0.300L	0.000E+00	6.389E-03	-3.982E-02	0.000E+00
0.400L	0.000E+00	8.296E-03	-3.871E-02	0.000E+00
0.500L	0.000E+00	9.471E-03	-4.420E-02	0.000E+00
0.600L	0.000E+00	8.296E-03	-3.871E-02	0.000E+00
0.700L	0.000E+00	6.389E-03	-2.982E-02	0.000E+00
0.800L	0.000E+00	3.874E-03	-1.808E-02	0.000E+00
0.900L	0.000E+00	1.675E-03	-7.815E-03	0.000E+00
1.000L	0.000E+00	-7.944E-10	3.707E-09	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 3

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.513E-03	-7.060E-03	0.000E+00
0.200L	0.000E+00	3.980E-03	-1.857E-02	0.000E+00
0.300L	0.000E+00	9.570E-03	-4.466E-02	0.000E+00
0.400L	0.000E+00	1.688E-02	-7.875E-02	0.000E+00
0.500L	0.000E+00	1.644E-02	-7.672E-02	0.000E+00
0.600L	0.000E+00	1.688E-02	-7.875E-02	0.000E+00
0.700L	0.000E+00	9.570E-03	-4.466E-02	0.000E+00
0.800L	0.000E+00	3.980E-03	-1.857E-02	0.000E+00
0.900L	0.000E+00	1.513E-03	-7.060E-03	0.000E+00
1.000L	0.000E+00	-2.363E-10	1.103E-09	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 4

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	6.673E-04	-3.114E-03	0.000E+00
0.200L	0.000E+00	1.415E-03	-6.603E-03	0.000E+00
0.300L	0.000E+00	3.078E-03	-1.436E-02	0.000E+00
0.400L	0.000E+00	2.058E-02	-9.604E-02	0.000E+00
0.500L	0.000E+00	6.572E-02	-3.067E-01	0.000E+00
0.600L	0.000E+00	2.058E-02	-9.604E-02	0.000E+00
0.700L	0.000E+00	3.078E-03	-1.436E-02	0.000E+00
0.800L	0.000E+00	1.415E-03	-6.603E-03	0.000E+00
0.900L	0.000E+00	6.673E-04	-3.114E-03	0.000E+00
1.000L	0.000E+00	-5.305E-09	2.569E-08	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 5

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	6.671E-04	3.113E-03	0.000E+00
0.200L	0.000E+00	1.415E-03	6.602E-03	0.000E+00
0.300L	0.000E+00	3.077E-03	1.436E-02	0.000E+00
0.400L	0.000E+00	2.058E-02	9.604E-02	0.000E+00
0.500L	0.000E+00	6.572E-02	3.067E-01	0.000E+00
0.600L	0.000E+00	2.058E-02	9.604E-02	0.000E+00
0.700L	0.000E+00	3.077E-03	1.436E-02	0.000E+00
0.800L	0.000E+00	1.415E-03	6.602E-03	0.000E+00
0.900L	0.000E+00	6.671E-04	3.113E-03	0.000E+00
1.000L	0.000E+00	-5.305E-09	-2.569E-08	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 6

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.513E-03	7.061E-03	0.000E+00
0.200L	0.000E+00	3.980E-03	1.858E-02	0.000E+00
0.300L	0.000E+00	9.571E-03	4.467E-02	0.000E+00
0.400L	0.000E+00	1.638E-02	7.876E-02	0.000E+00
0.500L	0.000E+00	1.644E-02	7.672E-02	0.000E+00
0.600L	0.000E+00	1.688E-02	7.876E-02	0.000E+00
0.700L	0.000E+00	9.571E-03	4.467E-02	0.000E+00
0.800L	0.000E+00	3.980E-03	1.858E-02	0.000E+00
0.900L	0.000E+00	1.513E-03	7.061E-03	0.000E+00
1.000L	0.000E+00	-2.364E-10	-1.103E-09	0.000E+00

***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 7

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	1.675E-03	7.817E-03	0.000E+00
0.200L	0.000E+00	3.874E-03	1.808E-02	0.000E+00
0.300L	0.000E+00	6.390E-03	2.982E-02	0.000E+00
0.400L	0.000E+00	8.297E-03	3.872E-02	0.000E+00
0.500L	0.000E+00	9.472E-03	4.420E-02	0.000E+00
0.600L	0.000E+00	8.297E-03	3.872E-02	0.000E+00
0.700L	0.000E+00	6.390E-03	2.982E-02	0.000E+00
0.800L	0.000E+00	3.874E-03	1.808E-02	0.000E+00
0.900L	0.000E+00	1.675E-03	7.817E-03	0.000E+00
1.000L	0.000E+00	-7.945E-10	-3.708E-09	0.000E+00

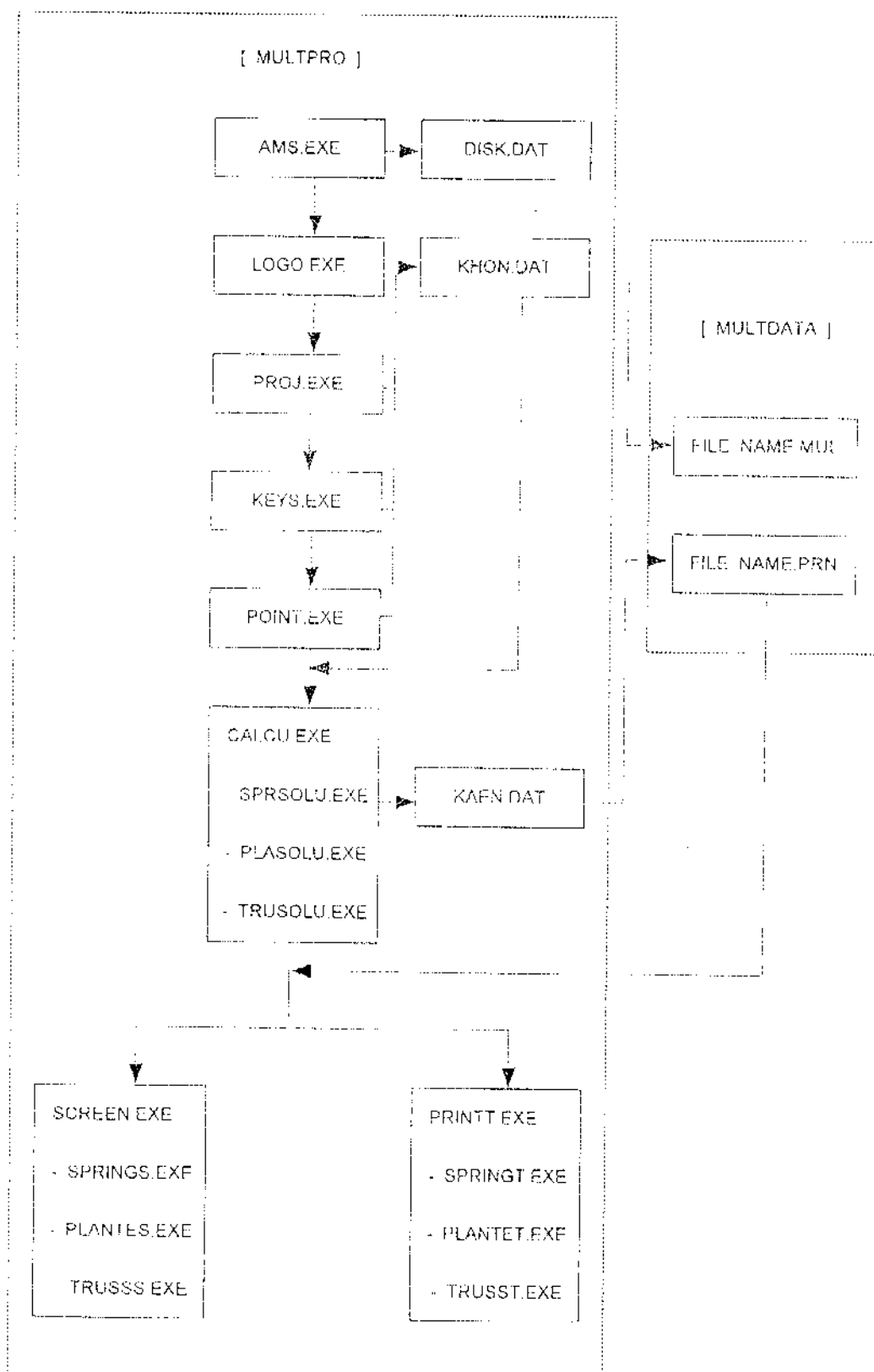
***** INTERNAL FORCES OF SHEAR KEY *****

SHEAR KEYS NO. 8

AT POINT	LONGITUDINAL	HORIZONTAL	VERTICAL	ROTATION
0.000L	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.100L	0.000E+00	9.821E-04	4.583E-03	0.000E+00
0.200L	0.000E+00	2.008E-03	9.369E-03	0.000E+00
0.300L	0.000E+00	3.003E-03	1.401E-02	0.000E+00
0.400L	0.000E+00	3.790E-03	1.769E-02	0.000E+00
0.500L	0.000E+00	4.038E-03	1.884E-02	0.000E+00
0.600L	0.000E+00	3.790E-03	1.769E-02	0.000E+00
0.700L	0.000E+00	3.003E-03	1.401E-02	0.000E+00
0.800L	0.000E+00	2.008E-03	9.369E-03	0.000E+00
0.900L	0.000E+00	9.821E-04	4.583E-03	0.000E+00
1.000L	0.000E+00	-3.160E-10	-1.473E-09	0.000E+00

ภาคผนวก ค. โปรแกรมคอมพิวเตอร์

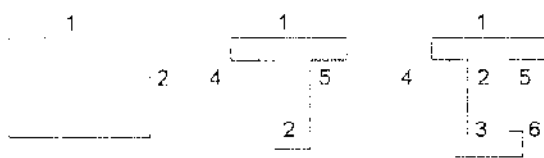
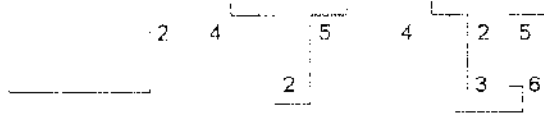
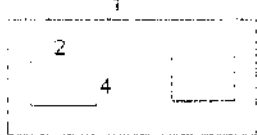
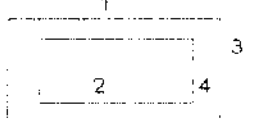
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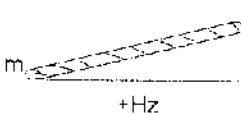
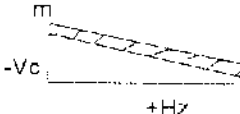


MEMORY REQUIREMENT

FILE	MEMORY REQUIREMENT (Bytes)
[MULTPRO]	
PROJ.EXE	13,364
BEAM.EXE	32,856
KEYS.EXE	24,084
LOAD.EXE	15,902
DISK.DAT	6
KHON.DAT	506
KAEN.DAT	36
LOGO.EXE	4,056
BRUN45.EXE	77,440
SCREEN.EXE	4,098
CALCU.EXE	4,098
PRINTT.EXE	4,098
TRUSOLU.EXE	50,688
POINT.EXE	18,876
PLASOLU.EXE	52,766
SPRSOLU.EXE	49,626
SPRINGT.EXE	25,294
PLATET.EXE	25,880
TRUSST.EXE	25,158
TRUSSS.EXE	24,018
PLATES.EXE	24,860
SPRINGS.EXE	24,308
AMS.EXE	14,148
TRUSS.EXE	57,910
TOTAL	577,940
[MULTDATA]	
FILE NAME.MUL	-
FILE NAME.PRN	-

USER GUIDE

Card Number	Symbol	Description
1	STRT	To start the structure properties determination routines.
2	TITLE	Analysis title
3	N	Number of beams
	NBT	Number of beam types
	SPAN	Span length
	UNIT	Unit of length
4	IBDN (I)	Beam type distribution
5	E - MOD	Beam's Modulus of Elasticity
	POIS	Beam's Poisson ratio
	1	
	2	
	3	
	4	RECTANGULAR TEE-SECTION IIR-SECTION
	5	
	6	
		5 - No. of cores - No. of boxes
		HOLLOW CORE BOX-SECTION
		J - Solid J - Thin wall tube
	BTYP	Section type of beams
6	MSKT	Number of shear key types
	ISDN (I)	Shear key type distribution
*7/	X	X - shear key stiffness
	Y	Y - shear key stiffness
	Z	Z - shear key stiffness
spring	O	O - shear key stiffness
type	L.LEV	Left shear key joint level
	R.LEV	Right shear key joint level
		(measured from beam's top surface)

Card Number	Symbol	Description
*7/	Es	Plate's Modulus of Elasticity
	Ts	Plate's thickness
	Hz	
	Vc	 
	L.LEV	Left shear key joint level
	R.LEV	Right shear key joint level
	POIS	Plate's poisson's Ratio
*7/	Es	Truss's Modulus of Elasticity
	Ts	Truss's thickness
	Hz	same as plate
	Vc	
	L.LEV	Left shear key joint level
	R.LEV	Right shear key joint level
	Kx	X - shear key stiffness
8	LOAD	To start the load routines
9	TITLE	Load case title
10	NL	Number of loads
	NHM	Number of harmonics
	INC	Increment of harmonic number
	UNIT	Unit of loads
11	R	Load magnitude or load intensity
	V	Width of load
	U	Length of load
	C	Longitudinal position of load centroid
	Ecc	Load eccentricity
	IPLD	Load type (CONCENTRATED, UNIFORM)
	LDN	The beam on which this load acts

Card Number	Symbol	Description
12	YY1	Coordinates of 4 points at which stresses will be calculated 
	ZZ1	
	YY2	
	ZZ2	
	YY3	
	ZZ3	
	YY4	
	ZZ4	
13	ISD	0 if no shear key displacements are to be calculated.
	NP	Number of points along the beams at which all results will be calculated.
	X (I)	The positions at which all results will be calculated in increments of span length (e.g. 0.1, 0.2, etc)
14	STOP	To terminate the analysis


```
PRINT 84, FILE
PRINT 84, PNO
PRINT 84, EYER
PRINT 84, ENGE
CLOSE 84
GOTO 10
1000 END
LOCATE 5, 23: PRINT "0 1 1 3 2 A M"
LOCATE 7, 14: PRINT "T E M P E R A T U R E V E R S I T Y"
LOCATE 9, 11: PRINT "....."
LOCATE 20, 11: PRINT "....."
RETURN
```



```

PTRN = PTRN - 1
END IF
CASE WHEN
  bufferinput = STRLEN(P1)
CASE use
  bufferinput = ""
CASE remove
  PTRN = 0
CASE rightnow
  IF PTRN < (XN - 1) THEN PTRN = PTRN + 1
CASE leftnow
  IF PTRN THEN PTRN = PTRN - 1
CASE endnow
  PTRN = XN - 1
CASE insert
  ins = NOT ins
CASE delete
  P1 = P1 + ""
  P1 = LEFT(P1, PTRN) + MID(P1, PTRN + 1)
CASE 15 < 25, 15 < 255
  SOUND 900, 1
  SOUND 700, 1
CASE ELSE
  IF 15 < 25 OR 15 < 255 OR 15 < 255 THEN
    IF 15 < 25 THEN
      P1 = LEFT(P1, PTRN) + CHR(15) + MID(P1, PTRN + 1, XN)
    ELSE
      P1 = LEFT(P1, PTRN) + CHR(15) + MID(P1, PTRN + 1, XN)
    END IF
  IF PTRN < (XN - 1) THEN PTRN = PTRN + 1
  ELSE
    SOUND 900, 1
    SOUND 700, 1
  END IF
END SELECT
LOOP UNTIL EN = end OR EN = 444
LOCATE . . 0
END FUNCTION

SUB datainput (nd, XN, YN) STATIC
FOR XN = 1 TO maxrow
FOR YN = 1 TO maxcol
  XN = (XN - 1) * 7 + XN + 1: YN = YN + 15
DO
  temp = VAL(bufferinput(4, 25, 15, YN, "0123456789"))
  LOOP UNTIL temp >= -3.4928438 AND temp <= 3.4012431
  nd = temp
NEXT YN
NEXT XN
END SUB

FUNCTION keyinput STATIC
DO
  P1 = INKEY$
  LOOP UNTIL P1 < ""
  keyinput = CHR(P1 + CHR(15))
END FUNCTION

SUB keyinput STATIC
DO
  LOOP WHILE INKEY$ = ""
END SUB

```


[illegible]

[illegible]

```

CASE DEPART
  YR = YR - 1
  YR = LEFTSTR(PR, PTNR) - MIDSTR(PR, PTNR + 2)
  CASE IF + 22, 18 + 225
    SOUND 900, 1
    SOUND 780, 1
  CASE ELSE
    IF FILLORD = "" OR INSTR(FILLORD, CHR$(LEN)) THEN
      IF SOUND THEN
        PR = LEFTSTR(LEFTSTR(PR, PTNR) + CHR$(LEN) + MIDSTR(PR, PTNR + 2), YR)
      ELSE
        IF PTNR + 25 THEN MIDSTR(YR, PTNR + 3, 1) = CHR$(LEN)
      END IF
      IF PTNR < CYS - 11 THEN PTNR = PTNR + 1
    ELSE
      SOUND 900, 1
      SOUND 780, 1
    END IF
  END SELECT
  LOOP UNTIL EN = CLEAR OR EN = ""
  LOCATE 1, 8
  END FUNCTION

FUNCTION KEYPAD STATIC
  DO
    Temp = VALBEEP(TEMP) (" ", 10, 25, YR, "-0123456789*")
    LOOP UNTIL Temp >= 2.4021E+25 AND Temp <= 2.4021E+25
    40 = Temp
  NEXT YR
  NEXT IS
  END SUB

FUNCTION KEYPAD STATIC
  DO
    LOOP WHILE INKEY$ = " "
  NEXT KTR
  END SUB

```

```

100      INPUT 4, Y(1, 1)
101      INPUT 5, Z(1, 1)
102      PRINT 1
103      INPUT 6, X(1, 1)
104      INPUT 7, Y(1, 2)
105      INPUT 8, Z(1, 2)
106      PRINT 1
107      INPUT 9, X(1, 2)
108      INPUT 10, Y(1, 3)
109      INPUT 11, Z(1, 3)
110      PRINT 1
111      INPUT 12, X(1, 4)
112      INPUT 13, Y(1, 4)
113      INPUT 14, Z(1, 4)
114      PRINT 1
115      INPUT 15, X(1, 5)
116      INPUT 16, Y(1, 5)
117      INPUT 17, Z(1, 5)
118      PRINT 1
119      INPUT 18, X(1, 6)
120      INPUT 19, Y(1, 6)
121      INPUT 20, Z(1, 6)
122      PRINT 1
123      INPUT 21, X(1, 7)
124      INPUT 22, Y(1, 7)
125      INPUT 23, Z(1, 7)
126      PRINT 1
127      INPUT 24, X(1, 8)
128      INPUT 25, Y(1, 8)
129      INPUT 26, Z(1, 8)
130      PRINT 1
131      INPUT 27, X(1, 9)
132      INPUT 28, Y(1, 9)
133      INPUT 29, Z(1, 9)
134      PRINT 1
135      INPUT 30, X(1, 10)
136      INPUT 31, Y(1, 10)
137      INPUT 32, Z(1, 10)
138      PRINT 1
139      INPUT 33, X(1, 11)
140      INPUT 34, Y(1, 11)
141      INPUT 35, Z(1, 11)
142      PRINT 1
143      INPUT 36, X(1, 12)
144      INPUT 37, Y(1, 12)
145      INPUT 38, Z(1, 12)
146      PRINT 1
147      INPUT 39, X(1, 13)
148      INPUT 40, Y(1, 13)
149      INPUT 41, Z(1, 13)
150      PRINT 1
151      INPUT 42, X(1, 14)
152      INPUT 43, Y(1, 14)
153      INPUT 44, Z(1, 14)
154      PRINT 1
155      INPUT 45, X(1, 15)
156      INPUT 46, Y(1, 15)
157      INPUT 47, Z(1, 15)
158      PRINT 1
159      INPUT 48, X(1, 16)
160      INPUT 49, Y(1, 16)
161      INPUT 50, Z(1, 16)
162      PRINT 1
163      INPUT 51, X(1, 17)
164      INPUT 52, Y(1, 17)
165      INPUT 53, Z(1, 17)
166      PRINT 1
167      INPUT 54, X(1, 18)
168      INPUT 55, Y(1, 18)
169      INPUT 56, Z(1, 18)
170      PRINT 1
171      INPUT 57, X(1, 19)
172      INPUT 58, Y(1, 19)
173      INPUT 59, Z(1, 19)
174      PRINT 1
175      INPUT 60, X(1, 20)
176      INPUT 61, Y(1, 20)
177      INPUT 62, Z(1, 20)
178      PRINT 1
179      INPUT 63, X(1, 21)
180      INPUT 64, Y(1, 21)
181      INPUT 65, Z(1, 21)
182      PRINT 1
183      INPUT 66, X(1, 22)
184      INPUT 67, Y(1, 22)
185      INPUT 68, Z(1, 22)
186      PRINT 1
187      INPUT 69, X(1, 23)
188      INPUT 70, Y(1, 23)
189      INPUT 71, Z(1, 23)
190      PRINT 1
191      INPUT 72, X(1, 24)
192      INPUT 73, Y(1, 24)
193      INPUT 74, Z(1, 24)
194      PRINT 1
195      INPUT 75, X(1, 25)
196      INPUT 76, Y(1, 25)
197      INPUT 77, Z(1, 25)
198      PRINT 1
199      INPUT 78, X(1, 26)
200      INPUT 79, Y(1, 26)
201      INPUT 80, Z(1, 26)
202      PRINT 1
203      INPUT 81, X(1, 27)
204      INPUT 82, Y(1, 27)
205      INPUT 83, Z(1, 27)
206      PRINT 1
207      INPUT 84, X(1, 28)
208      INPUT 85, Y(1, 28)
209      INPUT 86, Z(1, 28)
210      PRINT 1
211      INPUT 87, X(1, 29)
212      INPUT 88, Y(1, 29)
213      INPUT 89, Z(1, 29)
214      PRINT 1
215      INPUT 90, X(1, 30)
216      INPUT 91, Y(1, 30)
217      INPUT 92, Z(1, 30)
218      PRINT 1
219      INPUT 93, X(1, 31)
220      INPUT 94, Y(1, 31)
221      INPUT 95, Z(1, 31)
222      PRINT 1
223      INPUT 96, X(1, 32)
224      INPUT 97, Y(1, 32)
225      INPUT 98, Z(1, 32)
226      PRINT 1
227      INPUT 99, X(1, 33)
228      INPUT 100, Y(1, 33)
229      INPUT 101, Z(1, 33)
230      PRINT 1
231      INPUT 102, X(1, 34)
232      INPUT 103, Y(1, 34)
233      INPUT 104, Z(1, 34)
234      PRINT 1
235      INPUT 105, X(1, 35)
236      INPUT 106, Y(1, 35)
237      INPUT 107, Z(1, 35)
238      PRINT 1
239      INPUT 108, X(1, 36)
240      INPUT 109, Y(1, 36)
241      INPUT 110, Z(1, 36)
242      PRINT 1
243      INPUT 111, X(1, 37)
244      INPUT 112, Y(1, 37)
245      INPUT 113, Z(1, 37)
246      PRINT 1
247      INPUT 114, X(1, 38)
248      INPUT 115, Y(1, 38)
249      INPUT 116, Z(1, 38)
250      PRINT 1
251      INPUT 117, X(1, 39)
252      INPUT 118, Y(1, 39)
253      INPUT 119, Z(1, 39)
254      PRINT 1
255      INPUT 120, X(1, 40)
256      INPUT 121, Y(1, 40)
257      INPUT 122, Z(1, 40)
258      PRINT 1
259      INPUT 123, X(1, 41)
260      INPUT 124, Y(1, 41)
261      INPUT 125, Z(1, 41)
262      PRINT 1
263      INPUT 126, X(1, 42)
264      INPUT 127, Y(1, 42)
265      INPUT 128, Z(1, 42)
266      PRINT 1
267      INPUT 129, X(1, 43)
268      INPUT 130, Y(1, 43)
269      INPUT 131, Z(1, 43)
270      PRINT 1
271      INPUT 132, X(1, 44)
272      INPUT 133, Y(1, 44)
273      INPUT 134, Z(1, 44)
274      PRINT 1
275      INPUT 135, X(1, 45)
276      INPUT 136, Y(1, 45)
277      INPUT 137, Z(1, 45)
278      PRINT 1
279      INPUT 138, X(1, 46)
280      INPUT 139, Y(1, 46)
281      INPUT 140, Z(1, 46)
282      PRINT 1
283      INPUT 141, X(1, 47)
284      INPUT 142, Y(1, 47)
285      INPUT 143, Z(1, 47)
286      PRINT 1
287      INPUT 144, X(1, 48)
288      INPUT 145, Y(1, 48)
289      INPUT 146, Z(1, 48)
290      PRINT 1
291      INPUT 147, X(1, 49)
292      INPUT 148, Y(1, 49)
293      INPUT 149, Z(1, 49)
294      PRINT 1
295      INPUT 150, X(1, 50)
296      INPUT 151, Y(1, 50)
297      INPUT 152, Z(1, 50)
298      PRINT 1
299      INPUT 153, X(1, 51)
300      INPUT 154, Y(1, 51)
301      INPUT 155, Z(1, 51)
302      PRINT 1
303      INPUT 156, X(1, 52)
304      INPUT 157, Y(1, 52)
305      INPUT 158, Z(1, 52)
306      PRINT 1
307      INPUT 159, X(1, 53)
308      INPUT 160, Y(1, 53)
309      INPUT 161, Z(1, 53)
310      PRINT 1
311      INPUT 162, X(1, 54)
312      INPUT 163, Y(1, 54)
313      INPUT 164, Z(1, 54)
314      PRINT 1
315      INPUT 165, X(1, 55)
316      INPUT 166, Y(1, 55)
317      INPUT 167, Z(1, 55)
318      PRINT 1
319      INPUT 168, X(1, 56)
320      INPUT 169, Y(1, 56)
321      INPUT 170, Z(1, 56)
322      PRINT 1
323      INPUT 171, X(1, 57)
324      INPUT 172, Y(1, 57)
325      INPUT 173, Z(1, 57)
326      PRINT 1
327      INPUT 174, X(1, 58)
328      INPUT 175, Y(1, 58)
329      INPUT 176, Z(1, 58)
330      PRINT 1
331      INPUT 177, X(1, 59)
332      INPUT 178, Y(1, 59)
333      INPUT 179, Z(1, 59)
334      PRINT 1
335      INPUT 180, X(1, 60)
336      INPUT 181, Y(1, 60)
337      INPUT 182, Z(1, 60)
338      PRINT 1
339      INPUT 183, X(1, 61)
340      INPUT 184, Y(1, 61)
341      INPUT 185, Z(1, 61)
342      PRINT 1
343      INPUT 186, X(1, 62)
344      INPUT 187, Y(1, 62)
345      INPUT 188, Z(1, 62)
346      PRINT 1
347      INPUT 189, X(1, 63)
348      INPUT 190, Y(1, 63)
349      INPUT 191, Z(1, 63)
350      PRINT 1
351      INPUT 192, X(1, 64)
352      INPUT 193, Y(1, 64)
353      INPUT 194, Z(1, 64)
354      PRINT 1
355      INPUT 195, X(1, 65)
356      INPUT 196, Y(1, 65)
357      INPUT 197, Z(1, 65)
358      PRINT 1
359      INPUT 198, X(1, 66)
360      INPUT 199, Y(1, 66)
361      INPUT 200, Z(1, 66)
362      PRINT 1
363      INPUT 201, X(1, 67)
364      INPUT 202, Y(1, 67)
365      INPUT 203, Z(1, 67)
366      PRINT 1
367      INPUT 204, X(1, 68)
368      INPUT 205, Y(1, 68)
369      INPUT 206, Z(1, 68)
370      PRINT 1
371      INPUT 207, X(1, 69)
372      INPUT 208, Y(1, 69)
373      INPUT 209, Z(1, 69)
374      PRINT 1
375      INPUT 210, X(1, 70)
376      INPUT 211, Y(1, 70)
377      INPUT 212, Z(1, 70)
378      PRINT 1
379      INPUT 213, X(1, 71)
380      INPUT 214, Y(1, 71)
381      INPUT 215, Z(1, 71)
382      PRINT 1
383      INPUT 216, X(1, 72)
384      INPUT 217, Y(1, 72)
385      INPUT 218, Z(1, 72)
386      PRINT 1
387      INPUT 219, X(1, 73)
388      INPUT 220, Y(1, 73)
389      INPUT 221, Z(1, 73)
390      PRINT 1
391      INPUT 222, X(1, 74)
392      INPUT 223, Y(1, 74)
393      INPUT 224, Z(1, 74)
394      PRINT 1
395      INPUT 225, X(1, 75)
396      INPUT 226, Y(1, 75)
397      INPUT 227, Z(1, 75)
398      PRINT 1
399      INPUT 228, X(1, 76)
400      INPUT 229, Y(1, 76)
401      INPUT 230, Z(1, 76)
402      PRINT 1
403      INPUT 231, X(1, 77)
404      INPUT 232, Y(1, 77)
405      INPUT 233, Z(1, 77)
406      PRINT 1
407      INPUT 234, X(1, 78)
408      INPUT 235, Y(1, 78)
409      INPUT 236, Z(1, 78)
410      PRINT 1
411      INPUT 237, X(1, 79)
412      INPUT 238, Y(1, 79)
413      INPUT 239, Z(1, 79)
414      PRINT 1
415      INPUT 240, X(1, 80)
416      INPUT 241, Y(1, 80)
417      INPUT 242, Z(1, 80)
418      PRINT 1
419      INPUT 243, X(1, 81)
420      INPUT 244, Y(1, 81)
421      INPUT 245, Z(1, 81)
422      PRINT 1
423      INPUT 246, X(1, 82)
424      INPUT 247, Y(1, 82)
425      INPUT 248, Z(1, 82)
426      PRINT 1
427      INPUT 249, X(1, 83)
428      INPUT 250, Y(1, 83)
429      INPUT 251, Z(1, 83)
430      PRINT 1
431      INPUT 252, X(1, 84)
432      INPUT 253, Y(1, 84)
433      INPUT 254, Z(1, 84)
434      PRINT 1
435      INPUT 255, X(1, 85)
436      INPUT 256, Y(1, 85)
437      INPUT 257, Z(1, 85)
438      PRINT 1
439      INPUT 258, X(1, 86)
440      INPUT 259, Y(1, 86)
441      INPUT 260, Z(1, 86)
442      PRINT 1
443      INPUT 261, X(1, 87)
444      INPUT 262, Y(1, 87)
445      INPUT 263, Z(1, 87)
446      PRINT 1
447      INPUT 264, X(1, 88)
448      INPUT 265, Y(1, 88)
449      INPUT 266, Z(1, 88)
450      PRINT 1
451      INPUT 267, X(1, 89)
452      INPUT 268, Y(1, 89)
453      INPUT 269, Z(1, 89)
454      PRINT 1
455      INPUT 270, X(1, 90)
456      INPUT 271, Y(1, 90)
457      INPUT 272, Z(1, 90)
458      PRINT 1
459      INPUT 273, X(1, 91)
460      INPUT 274, Y(1, 91)
461      INPUT 275, Z(1, 91)
462      PRINT 1
463      INPUT 276, X(1, 92)
464      INPUT 277, Y(1, 92)
465      INPUT 278, Z(1, 92)
466      PRINT 1
467      INPUT 279, X(1, 93)
468      INPUT 280, Y(1, 93)
469      INPUT 281, Z(1, 93)
470      PRINT 1
471      INPUT 282, X(1, 94)
472      INPUT 283, Y(1, 94)
473      INPUT 284, Z(1, 94)
474      PRINT 1
475      INPUT 285, X(1, 95)
476      INPUT 286, Y(1, 95)
477      INPUT 287, Z(1, 95)
478      PRINT 1
479      INPUT 288, X(1, 96)
480      INPUT 289, Y(1, 96)
481      INPUT 290, Z(1, 96)
482      PRINT 1
483      INPUT 291, X(1, 97)
484      INPUT 292, Y(1, 97)
485      INPUT 293, Z(1, 97)
486      PRINT 1
487      INPUT 294, X(1, 98)
488      INPUT 295, Y(1, 98)
489      INPUT 296, Z(1, 98)
490      PRINT 1
491      INPUT 297, X(1, 99)
492      INPUT 298, Y(1, 99)
493      INPUT 299, Z(1, 99)
494      PRINT 1
495      INPUT 300, X(1, 100)
496      INPUT 301, Y(1, 100)
497      INPUT 302, Z(1, 100)
498      PRINT 1
499      INPUT 303, X(1, 101)
500      INPUT 304, Y(1, 101)
501      INPUT 305, Z(1, 101)
502      PRINT 1
503      INPUT 306, X(1, 102)
504      INPUT 307, Y(1, 102)
505      INPUT 308, Z(1, 102)
506      PRINT 1
507      INPUT 309, X(1, 103)
508      INPUT 310, Y(1, 103)
509      INPUT 311, Z(1, 103)
510      PRINT 1
511      INPUT 312, X(1, 104)
512      INPUT 313, Y(1, 104)
513      INPUT 314, Z(1, 104)
514      PRINT 1
515      INPUT 315, X(1, 105)
516      INPUT 316, Y(1, 105)
517      INPUT 317, Z(1, 105)
518      PRINT 1
519      INPUT 318, X(1, 106)
520      INPUT 319, Y(1, 106)
521      INPUT 320, Z(1, 106)
522      PRINT 1
523      INPUT 321, X(1, 107)
524      INPUT 322, Y(1, 107)
525      INPUT 323, Z(1, 107)
526      PRINT 1
527      INPUT 324, X(1, 108)
528      INPUT 325, Y(1, 108)
529      INPUT 326, Z(1, 108)
530      PRINT 1
531      INPUT 327, X(1, 109)
532      INPUT 328, Y(1, 109)
533      INPUT 329, Z(1, 109)
534      PRINT 1
535      INPUT 330, X(1, 110)
536      INPUT 331, Y(1, 110)
537      INPUT 332, Z(1, 110)
538      PRINT 1
539      INPUT 333, X(1, 111)
540      INPUT 334, Y(1, 111)
541      INPUT 335, Z(1, 111)
542      PRINT 1
543      INPUT 336, X(1, 112)
544      INPUT 337, Y(1, 112)
545      INPUT 338, Z(1, 112)
546      PRINT 1
547      INPUT 339, X(1, 113)
548      INPUT 340, Y(1, 113)
549      INPUT 341, Z(1, 113)
550      PRINT 1
551      INPUT 342, X(1, 114)
552      INPUT 343, Y(1, 114)
553      INPUT 344, Z(1, 114)
554      PRINT 1
555      INPUT 345, X(1, 115)
556      INPUT 346, Y(1, 115)
557      INPUT 347, Z(1, 115)
558      PRINT 1
559      INPUT 348, X(1, 116)
560      INPUT 349, Y(1, 116)
561      INPUT 350, Z(1, 116)
562      PRINT 1
563      INPUT 351, X(1, 117)
564      INPUT 352, Y(1, 117)
565      INPUT 353, Z(1, 117)
566      PRINT 1
567      INPUT 354, X(1, 118)
568      INPUT 355, Y(1, 118)
569      INPUT 356, Z(1, 118)
570      PRINT 1
571      INPUT 357, X(1, 119)
572      INPUT 358, Y(1, 119)
573      INPUT 359, Z(1, 119)
574      PRINT 1
575      INPUT 360, X(1, 120)
576      INPUT 361, Y(1, 120)
577      INPUT 362, Z(1, 120)
578      PRINT 1
579      INPUT 363, X(1, 121)
580      INPUT 364, Y(1, 121)
581      INPUT 365, Z(1, 121)
582      PRINT 1
583      INPUT 366, X(1, 122)
584      INPUT 367, Y(1, 122)
585      INPUT 368, Z(1, 122)
586      PRINT 1
587      INPUT 369, X(1, 123)
588      INPUT 370, Y(1, 123)
589      INPUT 371, Z(1, 123)
590      PRINT 1
591      INPUT 372, X(1, 124)
592      INPUT 373, Y(1, 124)
593      INPUT 374, Z(1, 124)
594      PRINT 1
595      INPUT 375, X(1, 125)
596      INPUT 376, Y(1, 125)
597      INPUT 377, Z(1, 125)
598      PRINT 1
599      INPUT 378, X(1, 126)
600      INPUT 379, Y(1, 126)
601      INPUT 380, Z(1, 126)
602      PRINT 1
603      INPUT 381, X(1, 127)
604      INPUT 382, Y(1, 127)
605      INPUT 383, Z(1, 127)
606      PRINT 1
607      INPUT 384, X(1, 128)
608      INPUT 385, Y(1, 128)
609      INPUT 386, Z(1, 128)
610      PRINT 1
611      INPUT 387, X(1, 129)
612      INPUT 388, Y(1, 129)
613      INPUT 389, Z(1, 129)
614      PRINT 1
615      INPUT 390, X(1, 130)
616      INPUT 391, Y(1, 130)
617      INPUT 392, Z(1, 130)
618      PRINT 1
619      INPUT 393, X(1, 131)
620      INPUT 394, Y(1, 131)
621      INPUT 395, Z(1, 131)
622      PRINT 1
623      INPUT 396, X(1, 132)
624      INPUT 397, Y(1, 132)
625      INPUT 398, Z(1, 132)
626      PRINT 1
627      INPUT 399, X(1, 133)
628      INPUT 400, Y(1, 133)
629      INPUT 401, Z(1, 133)
630      PRINT 1
631      INPUT 402, X(1, 134)
632      INPUT 403, Y(1, 134)
633      INPUT 404, Z(1, 134)
634      PRINT 1
635      INPUT 405, X(1, 135)
636      INPUT 406, Y(1, 135)
637      INPUT 407, Z(1, 135)
638      PRINT 1
639      INPUT 408, X(1, 136)
640      INPUT 409, Y(1, 136)
641      INPUT 410, Z(1, 136)
642      PRINT 1
643      INPUT 411, X(1, 137)
644      INPUT 412, Y(1, 137)
645      INPUT 413, Z(1, 137)
646      PRINT 1
647      INPUT 414, X(1, 138)
648      INPUT 415, Y(1, 138)
649      INPUT 416, Z(1, 138)
650      PRINT 1
651      INPUT 417, X(1, 139)
652      INPUT 418, Y(1, 139)
653      INPUT 419, Z(1, 139)
654      PRINT 1
655      INPUT 420, X(1, 140)
656      INPUT 421, Y(1, 140)
657      INPUT 422, Z(1, 140)
658      PRINT 1
659      INPUT 423, X(1, 141)
660      INPUT 424, Y(1, 141)
661      INPUT 425, Z(1, 141)
662      PRINT 1
663      INPUT 426, X(1, 142)
664      INPUT 427, Y(1, 142)
665      INPUT 428, Z(1, 142)
666      PRINT 1
667      INPUT 429, X(1, 143)
668      INPUT 430, Y(1, 143)
669      INPUT 431, Z(1, 143)
670      PRINT 1
671      INPUT 432, X(1, 144)
672      INPUT 433, Y(1, 144)
673      INPUT 434, Z(1, 144)
674      PRINT 1
675      INPUT 435, X(1, 145)
676      INPUT 436, Y(1, 145)
677      INPUT 437, Z(1, 145)
678      PRINT 1
679      INPUT 438, X(1, 146)
680      INPUT 439, Y(1, 146)
681      INPUT 440, Z(1, 146)
682      PRINT 1
683      INPUT 441, X(1, 147)
684      INPUT 442, Y(1, 147)
685      INPUT 443, Z(1, 147)
686      PRINT 1
687      INPUT 444, X(1, 148)
688      INPUT 445, Y(1, 148)
689      INPUT 446, Z(1, 148)
690      PRINT 1
691      INPUT 447, X(1, 149)
692      INPUT 448, Y(1, 149)
693      INPUT 449, Z(1, 149)
694      PRINT 1
695      INPUT 450, X(1, 150)
696      INPUT 451, Y(1, 150)
697      INPUT 452, Z(1, 150)
698      PRINT 1
699      INPUT 453, X(1, 151)
700      INPUT 454, Y(1, 151)
701      INPUT 455, Z(1, 151)
702      PRINT 1
703      INPUT 456, X(1, 152)
704      INPUT 457, Y(1, 152)
705      INPUT 458, Z(1, 152)
706      PRINT 1
707      INPUT 459, X(1, 153)
708      INPUT 460, Y(1, 153)
709      INPUT 461, Z(1, 153)
710      PRINT 1
711      INPUT 462, X(1, 154)
712      INPUT 463, Y(1, 154)
713      INPUT 464, Z(1, 154)
714      PRINT 1
715      INPUT 465, X(1, 155)
716      INPUT 466, Y(1, 155)
717      INPUT 467, Z(1, 155)
718      PRINT 1
719      INPUT 468, X(1, 156)
720      INPUT 469, Y(1, 156)
721      INPUT 470, Z(1, 156)
722      PRINT 1
723      INPUT 471, X(1, 157)
724      INPUT 472, Y(1, 157)
725      INPUT 473, Z(1, 157)
726      PRINT 1
727      INPUT 474, X(1, 158)
728      INPUT 475, Y(1, 158)
729      INPUT 476, Z(1, 158)
730      PRINT 1
731      INPUT 477, X(1, 159)
732      INPUT 478, Y(1, 159)
733      INPUT 479, Z(1, 159)
734      PRINT 1
735      INPUT 480, X(1, 160)
736      INPUT 481, Y(1, 160)
737      INPUT 482, Z(1, 160)
738      PRINT 1
739      INPUT 483, X(1, 161)
740      INPUT 484, Y(1, 161)
741      INPUT 485, Z(1, 161)
742      PRINT 1
743      INPUT 484, X(1, 162)
744      INPUT 485, Y(1, 162)
745      INPUT 486, Z(1, 162)
746      PRINT 1
747      INPUT 485, X(1, 163)
748      INPUT 486, Y(1, 163)
749      INPUT 487, Z(1, 163)
750      PRINT 1
751      INPUT 486, X(1, 164)
752      INPUT 487, Y(1, 164)
753      INPUT 488, Z(1, 164)
754      PRINT 1
755      INPUT 487, X(1, 165)
756      INPUT 488, Y(1, 165)
757      INPUT 489, Z(1, 165)
758      PRINT 1
759      INPUT 488, X(1, 166)
760      INPUT 489, Y(1, 166)
761      INPUT 490, Z(1, 166)
762      PRINT 1
763      INPUT 489, X(1, 167)
764      INPUT 490, Y(1, 167)
765      INPUT 491, Z(1, 167)
766      PRINT 1
767      INPUT 490, X(1, 168)
768      INPUT 491, Y(1, 168)
769      INPUT 492, Z(1, 168)
770      PRINT 1
771      INPUT 491, X(1, 169)
772      INPUT 492, Y(1, 169)
773      INPUT 493, Z(1, 169)
774      PRINT 1
775      INPUT 492, X(1, 170)
776      INPUT 493, Y(1, 170)
777      INPUT 494, Z(1, 170)
778      PRINT 1
779      INPUT 493, X(1, 171)
780      INPUT 494, Y(1, 171)
781      INPUT 495, Z(1, 171)
782      PRINT 1
783      INPUT 494, X(1, 172)
784      INPUT 495, Y(1, 172)
785      INPUT 496, Z(1, 172)
786      PRINT 1
787      INPUT 495, X(1, 173)
788      INPUT 496, Y(1, 173)
789      INPUT 497, Z(1, 173)
790      PRINT 1
791      INPUT 496, X(1, 174)
792      INPUT 497, Y(1, 174)
793      INPUT 498, Z(1, 174)
794      PRINT 1
795      INPUT 497, X(1, 175)
796      INPUT 498, Y(1, 175)
797      INPUT 499, Z(1, 175)
798      PRINT 1
799      INPUT 498, X(1, 176)
800      INPUT 499, Y(1, 176)
801      INPUT 500, Z(1, 176)
802      PRINT 1
803      INPUT 499, X(1, 177)
804      INPUT 500, Y(1, 177)
805      INPUT 501, Z(1, 177)
806      PRINT 1
807      INPUT 500, X(1, 178)
808      INPUT 501, Y(1, 178)
809      INPUT 502, Z(1, 178)
810      PRINT 1
811      INPUT 501, X(1, 179)
812      INPUT 502, Y(1, 179)
813      INPUT 503, Z(1, 179)
814      PRINT 1
815      INPUT 502, X(1, 180)
816      INPUT 503, Y(1, 180)
817      INPUT 504, Z(1, 180)
818      PRINT 1
819      INPUT 503, X(1, 181)
820      INPUT 504, Y(1, 181)
821      INPUT 505, Z(1, 181)
822      PRINT 1
823      INPUT 504, X(1, 182)
824      INPUT 505, Y(1, 182)
825      INPUT 506, Z(1, 182)
826      PRINT 1
827      INPUT 505, X(1, 183)
828      INPUT 506, Y(1, 183)
829      INPUT 507, Z(1, 183)
830      PRINT 1
831      INPUT 506, X(1, 184)
832      INPUT 507, Y(1, 184)
833      INPUT 508, Z(1, 184)
834      PRINT 1
835      INPUT 507, X(1, 185)
836      INPUT 508, Y(1, 185)
837      INPUT 509, Z(1, 185)
838      PRINT 1
839      INPUT 508, X(1, 186)
840      INPUT 509, Y(1, 186)
841      INPUT 510, Z(1, 186)
842      PRINT 1
843      INPUT 509, X(1, 187)
844      INPUT 510, Y(1, 187)
845      INPUT 511, Z(1, 187)
846      PRINT 1
847      INPUT 510, X(1, 188)
848      INPUT 511, Y(1, 188)
849      INPUT 512
```


[illegible]


```

CASE ELSE
  IF FILTER = "" OR INSTR(FILTER, CHR(25)) THEN
    IF LAST THEN
      P% = LEFT(LEFT(P%, PTEX) + CHR(25) + MID$(P%, PTEX + 1), 25)
    ELSE
      IF PTEX < 25 THEN MID$(P%, PTEX + 1, 1) = CHR(25)
    END IF
    IF PTEX < (25 - 1) THEN PTEX = PTEX + 1
  ELSE
    SOUND 998, 1
    SOUND 768, 1
  END IF
  END SELECT
  LOOP UNTIL CK = ENTER OR ER = OK
  LOCATE , 0
END FUNCTION

SUB datainput (M%, X%, Y%) STATIC
FOR IX = 1 TO 256000
  FOR JX = 1 TO 256000
    XJ% = (JX - 1) * 2 + X% + 1: YJ% = Y% + 1%
    DO
      temp% = ValBufferInput(" ", 9, XJ%, YJ%, "-013545789")
      LOOP UNTIL temp% >= 0.4021516 AND temp% <= 3.4022e+38
    IN OUT temp%
  NEXT JX
NEXT IX
END SUB

FUNCTION keycodes STATIC
DO
  P% = INKEY$
  LOOP UNTIL P% < ""
  keycodes = UT(PI% + CHR(0))
END FUNCTION

SUB keypressed STATIC
DO
  LOOP WHILE INKEY$ < ""
END SUB

```



```

5480 BDEF( 4) = -BDEF( 12)
5490 BDEF( 5) = BDEF( 17)
5500 E = E + 1
5510 BDEF( 1) = BDEF( 1)
5520 BDEF( 2) = -ALPHA + BDEF( 2)
5530 BDEF( 3) = -ALPHA + BDEF( 4)
5540 E = E + 1
5550 BDEF( 1) = BDEF( 18) + ALFA + BDEF( 2)
5560 BDEF( 2) = BDEF( 19) + ALFA
5570 BDEF( 3) = -BDEF( 18)
5580 E = E + 1
5590 BDEF( 1) = BDEF( 20) + ALFA + BDEF( 3)
5600 BDEF( 2) = -BDEF( 18)
5610 E = E + 1
5620 BDEF( 1) = BDEF( 21)
5630 E = E + 1
5640 NEXT I
5650 J = JBDEF(1)
5660 FOR I = 1 TO E + 3
5670 BDEF( 1) = BDEF( 1) + BDEF( 1) - BDEF( 1) - E + 1)
5680 NEXT I
5690 ALFA = 3.141592654 / PI
5700 FOR I = 1 TO PI
5710 ALFA = ALFA * X(1)
5720 BDEF(1) = BDEF(1)
5730 BDEF(1) = COS(ALFA)
5740 NEXT I
5750 RETURN

5800 REM.....SUBROUTINE CALCULATES THE LOAD VECTOR AND STORES
5810 REM.....FOR EACH DISPLACEMENT AT GIVEN ELIMINATION POINTS
5820 REM.....
5830 REM.....
5840 REM.....
5850 REM.....
5860 REM.....
5870 REM.....
5880 REM.....
5890 REM.....
5900 REM.....
5910 REM.....
5920 REM.....
5930 REM.....
5940 REM.....
5950 REM.....
5960 REM.....
5970 REM.....
5980 REM.....
5990 REM.....
6000 REM.....
6010 REM.....
6020 REM.....
6030 REM.....
6040 REM.....
6050 REM.....
6060 REM.....
6070 REM.....
6080 REM.....
6090 REM.....
6100 REM.....
6110 REM.....
6120 REM.....
6130 REM.....
6140 REM.....
6150 REM.....
6160 REM.....
6170 REM.....
6180 REM.....
6190 REM.....
6200 REM.....
6210 REM.....
6220 REM.....
6230 REM.....
6240 REM.....
6250 REM.....
6260 REM.....
6270 REM.....
6280 REM.....
6290 REM.....
6300 REM.....
6310 REM.....
6320 REM.....
6330 REM.....
6340 REM.....
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6360 REM.....
6370 REM.....
6380 REM.....
6390 REM.....
6400 REM.....
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6670 REM.....
6680 REM.....
6690 REM.....
6700 REM.....
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6890 REM.....
6900 REM.....
6910 REM.....
6920 REM.....
6930 REM.....
6940 REM.....
6950 REM.....
6960 REM.....
6970 REM.....
6980 REM.....
6990 REM.....
7000 REM.....
7010 REM.....
7020 REM.....
7030 REM.....
7040 REM.....
7050 REM.....
7060 REM.....
7070 REM.....
7080 REM.....
7090 REM.....
7100 REM.....
7110 REM.....
7120 REM.....
7130 REM.....
7140 REM.....
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7160 REM.....
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7180 REM.....
7190 REM.....
7200 REM.....
7210 REM.....
7220 REM.....
7230 REM.....
7240 REM.....
7250 REM.....
7260 REM.....
7270 REM.....
7280 REM.....
7290 REM.....
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-1000 E = 4 + 1 - 4
7310 FOR J = 1 TO 4
7320 SQR(J, 4 + A) + SQR(J, 2) + SQR(J, 3) / ALPHA
7330 NEXT J
7340 SQR(J, 3) + SQR(J, 4) / ALPHA
7350 SQR(J, 10) + SQR(J, 3) / ALPHA
7360 NEXT J
7370 SQR(J, 4) + SQR(J, 3)
7380 SQR(J, 3) + SQR(J, 2)
7390 SQR(J, 4) + SQR(J, 1, 2)
7400 SQR(J, 3) + SQR(J, 1, 2)
7410 IF 10 - 2) = 0 THEN GOTO 7430
7420 IF 10 - 2) = 0 THEN GOTO 7430
7430 FOR I = 2 TO 4 - 1
7440 J = I - 1
7450 SQR(J, 4) + SQR(J, 2) + SQR(J, 3)
7460 SQR(J, 3) + SQR(J, 2) + SQR(J, 3)
7470 NEXT I
7480 FOR I = 1 TO 4
7490 SQR(J, 3) + SQR(J, 2) + SQR(J, 3)
7500 NEXT I
7510 FOR I = 1 TO 4
7520 E = 4 + 1 - 4
7530 SQR(J, 4) + SQR(J, 3) / ALPHA
7540 SQR(J, 3) + SQR(J, 2) / ALPHA
7550 FOR J = 1 TO 4
7560 SQR(J, 1, 2) + SQR(J, 3, 2) + SQR(J, 4, 2) + SQR(J, 5, 2) + SQR(J, 6, 2) + SQR(J, 7, 2) + SQR(J, 8, 2) + SQR(J, 9, 2) + SQR(J, 10, 2)
7570 FOR I = 1 TO 4
7580 E = 4 + 1 - 4
7590 SQR(J, 1, 2) + SQR(J, 3, 2) + SQR(J, 4, 2) + SQR(J, 5, 2) + SQR(J, 6, 2) + SQR(J, 7, 2) + SQR(J, 8, 2) + SQR(J, 9, 2) + SQR(J, 10, 2)
7600 NEXT I
7610 IF 1 - 0 = 0 THEN GOTO 7610
7620 IF 1 - 0 = 0 THEN GOTO 7610
7630 FOR I = 1 TO 4
7640 FOR J = 1 TO 4
7650 SQR(J, 1, 2) + SQR(J, 3, 2) + SQR(J, 4, 2) + SQR(J, 5, 2) + SQR(J, 6, 2) + SQR(J, 7, 2) + SQR(J, 8, 2) + SQR(J, 9, 2) + SQR(J, 10, 2)
7660 NEXT J
7670 NEXT I
7680 IF 100 + 0 ON 100 = 0 THEN GOTO 7710
7690 IF 100 + 0 THEN GOTO 7680
7700 FOR I = 1 TO 4 - 1
7710 FOR J = 1 TO 4
7720 SQR(J, 1, 2) + SQR(J, 3, 2) + SQR(J, 4, 2) + SQR(J, 5, 2) + SQR(J, 6, 2) + SQR(J, 7, 2) + SQR(J, 8, 2) + SQR(J, 9, 2) + SQR(J, 10, 2)
7730 NEXT J
7740 FOR I = 2 TO 4
7750 E = 1 + 4
7760 E = 1 + 4
7770 FOR J = 1 TO 4
7780 SQR(J, 1, 2) + SQR(J, 3, 2) + SQR(J, 4, 2) + SQR(J, 5, 2) + SQR(J, 6, 2) + SQR(J, 7, 2) + SQR(J, 8, 2) + SQR(J, 9, 2) + SQR(J, 10, 2)
7790 NEXT J
7800 NEXT I
7810 NEXT J
7820 NEXT I
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9980 NEXT I
9990 NEXT J

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8450 REM-----BEAM DISPLACEMENTS-----
PRINT 42, 40
8460 FOR I = 1 TO 4 STEP 2
8470 FOR J = 1 TO 4
8480 PRINT 42, 40
8490 FOR J = 1 TO 4
8500 PRINT 42, 40
8510 NEXT J
8520 NEXT I
8530 IF 1 - 0 = 0 THEN GOTO 8510
8540 IF 1 - 0 = 0 THEN GOTO 8540
8550 IF 1 - 0 = 0 THEN GOTO 8540
8560 IF 1 - 0 = 0 THEN GOTO 8540
8570 FOR I = 1 TO 4
8580 FOR J = 1 TO 4
8590 PRINT 42, 40
8600 NEXT J
8610 NEXT I
8620 FOR I = 1 TO 4
8630 PRINT 42, 40
8640 NEXT I
8650 NEXT J
8660 NEXT I
8670 NEXT J
8680 NEXT I
8690 NEXT J
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9980 NEXT I
9990 NEXT J

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8140 A.M. = F.M.I. - 0. J) / T.M.I.(1.1)
8150 FOR K = 1 TO 4
8160 B.M.I.(K, J, I) = "A" + A.M. + T.M.I.(K, J) + A.M. + B.M.I.(K, J) + F.M.I.(K, J)
8170 NEXT K
      PRINT 31, K(I)
8180 FOR M = 1 TO 4
8190 PRINT 41, B.M.I.(M, J, I)
8200 NEXT M
8210 NEXT J
      IF I = N < 9 THEN GOTO A410
      IF I = N * 9 THEN GOTO A440
8220 NEXT J
8230 NEXT I
8240 REM*****ANALYZE EBY FORCE*****
8250 FOR I = 1 TO N - 1 STEP 1
8260 FOR S = 1 TO DP
8270 PRINT 43, K(I)
8280 FOR J = 1 TO 4
8290 PRINT 53, F.M.I.(J, K)
8300 NEXT J
8310 NEXT I
8320 NEXT S
8330 IF I = N * 1 + 9 THEN GOTO 8360
8340 IF I = N * 1 + 9 THEN GOTO 8360
8350 IF I = N * 1 + 9 THEN GOTO 8360
8360 IF I = N * 1 + 9 THEN GOTO 8360
8370 FOR S = 1 TO DP
8380 FOR J = 1 TO 4
8390 PRINT 63, F.M.I.(J, K)
8400 NEXT J
8410 NEXT S
8420 NEXT I
      CLOSE 32
      OPEN "P", "PLAN.DAT"
      PRINT 64, F1134
      PRINT 64, P.M.I.
      PRINT 64, EBY
      PRINT 64, C.M.S
      CLOSE 64
      GOTO 8430
8440 RETURN

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```

6340 NEXT I
6350 FOR J = 1 TO M
6360 E = 0
6370 F(1) = B(I)
6380 NEXT J
6390 NEXT I
6400 REM*****SIMILARITY OPERATIONS*****
6410 REM*****
6420 FOR J = 1 TO M
6430 FOR I = 1 TO M
6440 E = 0
6450 F(1) = B(I)
6460 NEXT I
6470 NEXT J
6480 REM*****SELECT THE LOAD VECTOR*****
6490 FOR J = 1 TO M
6500 E = 0
6510 F(1) = B(I)
6520 NEXT I
6530 NEXT J
6540 REM*****SELECT THE LOAD VECTOR*****
6550 FOR J = 1 TO M
6560 E = 0
6570 F(1) = B(I)
6580 NEXT I
6590 NEXT J
6600 REM*****SELECT THE LOAD VECTOR*****
6610 FOR J = 1 TO M
6620 E = 0
6630 F(1) = B(I)
6640 NEXT I
6650 NEXT J
6660 REM*****SELECT THE LOAD VECTOR*****
6670 FOR J = 1 TO M
6680 E = 0
6690 F(1) = B(I)
6700 NEXT I
6710 NEXT J
6720 REM*****SELECT THE LOAD VECTOR*****
6730 FOR J = 1 TO M
6740 E = 0
6750 F(1) = B(I)
6760 NEXT I
6770 NEXT J
6780 REM*****SELECT THE LOAD VECTOR*****
6790 FOR J = 1 TO M
6800 E = 0
6810 F(1) = B(I)
6820 NEXT I
6830 NEXT J
6840 REM*****SELECT THE LOAD VECTOR*****
6850 FOR J = 1 TO M
6860 E = 0
6870 F(1) = B(I)
6880 NEXT I
6890 NEXT J
6900 REM*****SELECT THE LOAD VECTOR*****
6910 FOR J = 1 TO M
6920 E = 0
6930 F(1) = B(I)
6940 NEXT I
6950 NEXT J
6960 REM*****SELECT THE LOAD VECTOR*****
6970 FOR J = 1 TO M
6980 E = 0
6990 F(1) = B(I)
7000 NEXT I
7010 NEXT J
7020 REM*****SELECT THE LOAD VECTOR*****
7030 FOR J = 1 TO M
7040 E = 0
7050 F(1) = B(I)
7060 NEXT I
7070 NEXT J
7080 REM*****SELECT THE LOAD VECTOR*****
7090 FOR J = 1 TO M
7100 E = 0
7110 F(1) = B(I)
7120 NEXT I
7130 NEXT J
7140 REM*****SELECT THE LOAD VECTOR*****
7150 FOR J = 1 TO M
7160 E = 0
7170 F(1) = B(I)
7180 NEXT I
7190 NEXT J
7200 REM*****SELECT THE LOAD VECTOR*****
7210 FOR J = 1 TO M
7220 E = 0
7230 F(1) = B(I)
7240 NEXT I
7250 NEXT J

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1340 A4 = P(11, 1) * P(11, 5) * 23
      IF J = 4 & 8 THEN GOTO 1345
1350 IF J = 4 & 8 OR J = 4 & 8 OR J = 4 & 8 THEN GOTO 1370
1370 T4 = -T4 - A4 + P(11, 7) * P(11, 1) * 23 + .5
1380 B4(1) = S4(1) + A4
1390 NEXT J
1400 ALTA(1) = T4 / S4(1)
1410 T4(1) = 0
1420 T4(1) = 0
1430 T4(1) = 0
1440 FOR J = 3 TO 5
      IF J = 4 & 8 THEN GOTO 1340
1450 IF J = 4 & 8 OR J = 4 & 8 THEN GOTO 1470
      IF P(11, 1) * 23 < 0 THEN GOTO 1430
1470 IF P(11, 5) * 23 < 0 OR P(11, 1) * 23 < 0 THEN GOTO 1490
1480 ALTA(1) = -ALTA(1)
1490 B4(1) = P(11, 1) * P(11, 5) * 23
1500 B4(1) = B4(1) + P(11, 1) * P(11, 5) * 23 / 12 + (A4 + P(11, 7) * P(11, 1) * 23) * ALTA(1) * 23
1510 A4 = P(11, 3) / P(11, 1) * 23
1520 GOTO 2000
1530 A7(1) = P(11, 1) * 18 - 2 * P(11, 3) * 16
1540 GOTO 1540
1550 B4(1) = P(11, 3) * P(11, 1) * 23 + P(11, 1) * P(11, 3) * 23 + P(11, 1) * P(11, 3) * 23
1560 GOTO 2000
1570 B7(1) = P(11, 1) * 2 * P(11, 1) * 23 + 16
1580 T4(1) = P(11, 1) * P(11, 3) * 23
1590 B4(1) = P(11, 1) * 3 * P(11, 1) * 23 / 12
1600 T4(1) = T4(1) + B4(1) * B4(1)
1610 T4(1) = T4(1) * 713
1620 NEXT J
1630 GOTO 1940
1640 IF K = 4 & 8 THEN GOTO 1670
1650 IF K = 4 & 8 THEN GOTO 1670
1660 IF K = 4 & 8 THEN GOTO 1670
1670 IF P(11, 3) * P(11, 5) < 0 THEN GOTO 1730
1680 IF P(11, 3) * P(11, 5) < 0 THEN GOTO 1690
1690 A4 = P(11, 3) / P(11, 5)
1700 GOTO 2000
1710 T4(1) = P(11, 3) * 23 + P(11, 3) * 23 + 76
1720 GOTO 1640
1730 A4 = P(11, 3) / P(11, 5)
1740 GOTO 2000
1750 T4(1) = P(11, 3) * 23 + P(11, 5) * 56
1760 GOTO 1800
1770 T1 = P(11, 3) / P(11, 7) + P(11, 4)
1780 Q = P(11, 5) * P(11, 6)
1790 Q = P(11, 5) * P(11, 6)
1795 T4(1) = P(11, 7) * T1 * Q * Q
1795 T4(1) = T4(1) / 8 + (T1 / P(11, 5) - P(11, 6) * 0 / P(11, 3) / P(11, 7) - P(11, 4) * 3)
1800 T4(1) = P(11, 3) * P(11, 5) * P(11, 5) * P(11, 6) * 2 * P(11, 4) * P(11, 7) / 12
1810 T1 = (P(11, 3) * 23 + P(11, 5) * P(11, 6) * 2 * P(11, 4) * P(11, 7) / 12
1820 B4(1) = P(11, 7)
1830 Q = P(11, 5) * P(11, 7)
1840 A4 = 0
1850 A4 = 0
      IF B4 = 0 THEN GOTO 1920
1860 IF A4 < 0 OR A4 > 0 THEN GOTO 1880
1880 FOR J = 1 TO A4
1890 A4 = A4 + (P(11, 3) * 23 - 56 * Q) - P(11, 3) * 23 + 56 * Q * 3
1900 A4 = A4 * 3
1910 NEXT J
1920 T4(1) = P(11, 4) * P(11, 6) * 23
1930 T4(1) = P(11, 3) * P(11, 5) * P(11, 4) * P(11, 6) * P(11, 7)
1940 NEXT J
1950 GOTO 1970

```

```

1960 IF = 2
1970 THEN
2000 END
2010 END
2020 END
2030 END
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2070 END
2080 END
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2100 END
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3010 END
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3900 END
3910 END
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3930 END
3940 END
3950 END
3960 END
3970 END
3980 END
3990 END
4000 END

```



```

END.....
NEW          PRINT.M4
NEW          THIS FILE IS USED FOR SELECTING
NEW          THE THEORY FOR PRINTING THE RESULT ON PAPER
NEW.....
OPEN "C:\31. "DIRL.DAT"
        INPUT 01, P04
        INPUT 02, D04
        CLOSE 02
OPEN "C:\31. "TABL.DAT"
        INPUT 04, P104
        INPUT 04, P004
        INPUT 04, E004
        INPUT 04, END4
        CLOSE 04
        IF E004 = "ENDING TYPE" THEN 44 * P04 = "MULTIPROCESSING END"
        IF E004 = "PLATE TYPE" THEN 44 * P04 = "MULTIPROCESSING END"
        IF E004 = "TRAIL TYPE" THEN 44 * P04 = "MULTIPROCESSING END"
        GOTO 44
END

```

```

10 *****
20      *****
30      ADD THIS PROGRAM BEHIND THE ANALYSIS OF SHEET SUPPORTED UNIFORM
40      AND STRUCTURE WITH SPRING TYPE BEAM DATA FROM DATA OF PRINTER
50 *****
60 *****
70 *****
80 *****
90 *****
100 *****
110 *****
120 *****
130 *****
140 *****
150 *****
160 *****
170 *****
180 *****
190 *****
200 *****
210 *****
220 *****
230 *****
240 *****
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270 *****
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310 *****
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330 *****
340 *****
350 *****
360 *****
370 *****
380 *****
390 *****
400 *****
410 *****
420 *****
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440 *****
450 *****
460 *****
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480 *****
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640 *****
650 *****
660 *****
670 *****
680 *****
690 *****
700 *****
710 *****
720 *****
730 *****
740 *****
750 *****
760 *****
770 *****
780 *****
790 *****
800 *****
810 *****
820 *****
830 *****
840 *****
850 *****
860 *****
870 *****
880 *****
890 *****
900 *****
910 *****
920 *****
930 *****
940 *****
950 *****
960 *****
970 *****
980 *****
990 *****
1000 *****

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10 *****
20 *****
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220 *****
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310 *****
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350 *****
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390 *****
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420 *****
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750 *****
760 *****
770 *****
780 *****
790 *****
800 *****
810 *****
820 *****
830 *****
840 *****
850 *****
860 *****
870 *****
880 *****
890 *****
900 *****
910 *****
920 *****
930 *****
940 *****
950 *****
960 *****
970 *****
980 *****
990 *****
1000 *****

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```

10 REM ***** PLATE 1A *****
20 REM THIS PROGRAM ENABLES THE ANALYSIS OF SIMPLE SUPPORTED MULTIBEAM
30 REM STRUCTURES WITH PLATE TYPE BEAM X-YZ BEAM DATA ON PLATES
40 REM *****
50 REM *****
60 REM *****
70 REM *****
80 REM *****
90 REM *****
100 REM *****
110 REM *****
120 REM *****
130 REM *****
140 REM *****
150 REM *****
160 REM *****
170 REM *****
180 REM *****
190 REM *****
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220 REM *****
230 REM *****
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390 REM *****
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410 REM *****
420 REM *****
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460 REM *****
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640 REM *****
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660 REM *****
670 REM *****
680 REM *****
690 REM *****
700 REM *****
710 REM *****
720 REM *****
730 REM *****
740 REM *****
750 REM *****
760 REM *****
770 REM *****
780 REM *****
790 REM *****
800 REM *****
810 REM *****
820 REM *****
830 REM *****
840 REM *****
850 REM *****
860 REM *****
870 REM *****
880 REM *****
890 REM *****
900 REM *****
910 REM *****
920 REM *****
930 REM *****
940 REM *****
950 REM *****
960 REM *****
970 REM *****
980 REM *****
990 REM *****
1000 REM *****

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1010 REM *****
1020 REM *****
1030 REM *****
1040 REM *****
1050 REM *****
1060 REM *****
1070 REM *****
1080 REM *****
1090 REM *****
1100 REM *****
1110 REM *****
1120 REM *****
1130 REM *****
1140 REM *****
1150 REM *****
1160 REM *****
1170 REM *****
1180 REM *****
1190 REM *****
1200 REM *****
1210 REM *****
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1260 REM *****
1270 REM *****
1280 REM *****
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1580 REM *****
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1860 REM *****
1870 REM *****
1880 REM *****
1890 REM *****
1900 REM *****
1910 REM *****
1920 REM *****
1930 REM *****
1940 REM *****
1950 REM *****
1960 REM *****
1970 REM *****
1980 REM *****
1990 REM *****
2000 REM *****

```


184

[illegible]

185

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10 1000 *****
20 1010 *****
30 1020 *****
40 1030 *****
50 1040 *****
60 1050 *****
70 1060 *****
80 1070 *****
90 1080 *****
100 1090 *****
110 1100 *****
120 1110 *****
130 1120 *****
140 1130 *****
150 1140 *****
160 1150 *****
170 1160 *****
180 1170 *****
190 1180 *****
200 1190 *****
210 1200 *****
220 1210 *****
230 1220 *****
240 1230 *****
250 1240 *****
260 1250 *****
270 1260 *****
280 1270 *****
290 1280 *****
300 1290 *****
310 1300 *****
320 1310 *****
330 1320 *****
340 1330 *****
350 1340 *****
360 1350 *****
370 1360 *****
380 1370 *****
390 1380 *****
400 1390 *****
410 1400 *****
420 1410 *****
430 1420 *****
440 1430 *****
450 1440 *****
460 1450 *****
470 1460 *****
480 1470 *****
490 1480 *****
500 1490 *****
510 1500 *****
520 1510 *****
530 1520 *****
540 1530 *****
550 1540 *****
560 1550 *****
570 1560 *****
580 1570 *****
590 1580 *****
600 1590 *****
610 1600 *****
620 1610 *****
630 1620 *****
640 1630 *****
650 1640 *****
660 1650 *****
670 1660 *****
680 1670 *****
690 1680 *****
700 1690 *****
710 1700 *****
720 1710 *****
730 1720 *****
740 1730 *****
750 1740 *****
760 1750 *****
770 1760 *****
780 1770 *****
790 1780 *****
800 1790 *****
810 1800 *****
820 1810 *****
830 1820 *****
840 1830 *****
850 1840 *****
860 1850 *****
870 1860 *****
880 1870 *****
890 1880 *****
900 1890 *****
910 1900 *****
920 1910 *****
930 1920 *****
940 1930 *****
950 1940 *****
960 1950 *****
970 1960 *****
980 1970 *****
990 1980 *****
1000 1990 *****

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10 2000 *****
20 2010 *****
30 2020 *****
40 2030 *****
50 2040 *****
60 2050 *****
70 2060 *****
80 2070 *****
90 2080 *****
100 2090 *****
110 2100 *****
120 2110 *****
130 2120 *****
140 2130 *****
150 2140 *****
160 2150 *****
170 2160 *****
180 2170 *****
190 2180 *****
200 2190 *****
210 2200 *****
220 2210 *****
230 2220 *****
240 2230 *****
250 2240 *****
260 2250 *****
270 2260 *****
280 2270 *****
290 2280 *****
300 2290 *****
310 2300 *****
320 2310 *****
330 2320 *****
340 2330 *****
350 2340 *****
360 2350 *****
370 2360 *****
380 2370 *****
390 2380 *****
400 2390 *****
410 2400 *****
420 2410 *****
430 2420 *****
440 2430 *****
450 2440 *****
460 2450 *****
470 2460 *****
480 2470 *****
490 2480 *****
500 2490 *****
510 2500 *****
520 2510 *****
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540 2530 *****
550 2540 *****
560 2550 *****
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580 2570 *****
590 2580 *****
600 2590 *****
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630 2620 *****
640 2630 *****
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660 2650 *****
670 2660 *****
680 2670 *****
690 2680 *****
700 2690 *****
710 2700 *****
720 2710 *****
730 2720 *****
740 2730 *****
750 2740 *****
760 2750 *****
770 2760 *****
780 2770 *****
790 2780 *****
800 2790 *****
810 2800 *****
820 2810 *****
830 2820 *****
840 2830 *****
850 2840 *****
860 2850 *****
870 2860 *****
880 2870 *****
890 2880 *****
900 2890 *****
910 2900 *****
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930 2920 *****
940 2930 *****
950 2940 *****
960 2950 *****
970 2960 *****
980 2970 *****
990 2980 *****
1000 2990 *****

```


[illegible]

681

```

END.....
RM      SCREW AS
RM      THIS FILE IS USED FOR SELECTING
RM      THE TARGET FOR PRINTING THE RESULT ON MONITOR
END.....
OPEN "4", "41", "41A.DAT"
INPUT 41, P14
INPUT 42, M45
CLOSE 41
OPEN "1", "44", "TAPAS.DAT"
INPUT 44, F1145
INPUT 44, P144
INPUT 44, Z144
INPUT 44, M44
CLOSE 44
IF LTR44 = "SPRING TYPE" THEN AS = P14 + "NADUTROVAPLATEL.DAT"
IF LTR44 = "PLATE TYPE" THEN AS = P14 + "NADUTROVAPLATEL.DAT"
IF LTR44 = "THIN TYPE" THEN AS = P14 + "NADUTROVAPLATEL.DAT"
SMALL AS
END

```


[illegible]

```

11 17794(1, 1) = "TENS SECTION" THIS GOTO 13740
13650 INPUT G2, P1(1, 3)
      INPUT G3, P1(1, 4)
      INPUT G4, P1(1, 5)
      INPUT G5, P1(1, 6)
      INPUT G6, P1(1, 7)
      INPUT G7, P1(1, 8)
      INPUT G8, P1(1, 9)
      INPUT G9, P1(1, 10)
      INPUT G10, P1(1, 11)
      INPUT G11, P1(1, 12)
      INPUT G12, P1(1, 13)
      INPUT G13, P1(1, 14)
      INPUT G14, P1(1, 15)
      INPUT G15, P1(1, 16)
      INPUT G16, P1(1, 17)
      INPUT G17, P1(1, 18)
      INPUT G18, P1(1, 19)
      INPUT G19, P1(1, 20)
      INPUT G20, P1(1, 21)
      INPUT G21, P1(1, 22)
      INPUT G22, P1(1, 23)
      INPUT G23, P1(1, 24)
      INPUT G24, P1(1, 25)
      INPUT G25, P1(1, 26)
      INPUT G26, P1(1, 27)
      INPUT G27, P1(1, 28)
      INPUT G28, P1(1, 29)
      INPUT G29, P1(1, 30)
      INPUT G30, P1(1, 31)
      INPUT G31, P1(1, 32)
      INPUT G32, P1(1, 33)
      INPUT G33, P1(1, 34)
      INPUT G34, P1(1, 35)
      INPUT G35, P1(1, 36)
      INPUT G36, P1(1, 37)
      INPUT G37, P1(1, 38)
      INPUT G38, P1(1, 39)
      INPUT G39, P1(1, 40)
      INPUT G40, P1(1, 41)
      INPUT G41, P1(1, 42)
      INPUT G42, P1(1, 43)
      INPUT G43, P1(1, 44)
      INPUT G44, P1(1, 45)
      INPUT G45, P1(1, 46)
      INPUT G46, P1(1, 47)
      INPUT G47, P1(1, 48)
      INPUT G48, P1(1, 49)
      INPUT G49, P1(1, 50)
      INPUT G50, P1(1, 51)
      INPUT G51, P1(1, 52)
      INPUT G52, P1(1, 53)
      INPUT G53, P1(1, 54)
      INPUT G54, P1(1, 55)
      INPUT G55, P1(1, 56)
      INPUT G56, P1(1, 57)
      INPUT G57, P1(1, 58)
      INPUT G58, P1(1, 59)
      INPUT G59, P1(1, 60)
      INPUT G60, P1(1, 61)
      INPUT G61, P1(1, 62)
      INPUT G62, P1(1, 63)
      INPUT G63, P1(1, 64)
      INPUT G64, P1(1, 65)
      INPUT G65, P1(1, 66)
      INPUT G66, P1(1, 67)
      INPUT G67, P1(1, 68)
      INPUT G68, P1(1, 69)
      INPUT G69, P1(1, 70)
      INPUT G70, P1(1, 71)
      INPUT G71, P1(1, 72)
      INPUT G72, P1(1, 73)
      INPUT G73, P1(1, 74)
      INPUT G74, P1(1, 75)
      INPUT G75, P1(1, 76)
      INPUT G76, P1(1, 77)
      INPUT G77, P1(1, 78)
      INPUT G78, P1(1, 79)
      INPUT G79, P1(1, 80)
      INPUT G80, P1(1, 81)
      INPUT G81, P1(1, 82)
      INPUT G82, P1(1, 83)
      INPUT G83, P1(1, 84)
      INPUT G84, P1(1, 85)
      INPUT G85, P1(1, 86)
      INPUT G86, P1(1, 87)
      INPUT G87, P1(1, 88)
      INPUT G88, P1(1, 89)
      INPUT G89, P1(1, 90)
      INPUT G90, P1(1, 91)
      INPUT G91, P1(1, 92)
      INPUT G92, P1(1, 93)
      INPUT G93, P1(1, 94)
      INPUT G94, P1(1, 95)
      INPUT G95, P1(1, 96)
      INPUT G96, P1(1, 97)
      INPUT G97, P1(1, 98)
      INPUT G98, P1(1, 99)
      INPUT G99, P1(1, 100)
      INPUT G100, P1(1, 101)
      INPUT G101, P1(1, 102)
      INPUT G102, P1(1, 103)
      INPUT G103, P1(1, 104)
      INPUT G104, P1(1, 105)
      INPUT G105, P1(1, 106)
      INPUT G106, P1(1, 107)
      INPUT G107, P1(1, 108)
      INPUT G108, P1(1, 109)
      INPUT G109, P1(1, 110)
      INPUT G110, P1(1, 111)
      INPUT G111, P1(1, 112)
      INPUT G112, P1(1, 113)
      INPUT G113, P1(1, 114)
      INPUT G114, P1(1, 115)
      INPUT G115, P1(1, 116)
      INPUT G116, P1(1, 117)
      INPUT G117, P1(1, 118)
      INPUT G118, P1(1, 119)
      INPUT G119, P1(1, 120)
      INPUT G120, P1(1, 121)
      INPUT G121, P1(1, 122)
      INPUT G122, P1(1, 123)
      INPUT G123, P1(1, 124)
      INPUT G124, P1(1, 125)
      INPUT G125, P1(1, 126)
      INPUT G126, P1(1, 127)
      INPUT G127, P1(1, 128)
      INPUT G128, P1(1, 129)
      INPUT G129, P1(1, 130)
      INPUT G130, P1(1, 131)
      INPUT G131, P1(1, 132)
      INPUT G132, P1(1, 133)
      INPUT G133, P1(1, 134)
      INPUT G134, P1(1, 135)
      INPUT G135, P1(1, 136)
      INPUT G136, P1(1, 137)
      INPUT G137, P1(1, 138)
      INPUT G138, P1(1, 139)
      INPUT G139, P1(1, 140)
      INPUT G140, P1(1, 141)
      INPUT G141, P1(1, 142)
      INPUT G142, P1(1, 143)
      INPUT G143, P1(1, 144)
      INPUT G144, P1(1, 145)
      INPUT G145, P1(1, 146)
      INPUT G146, P1(1, 147)
      INPUT G147, P1(1, 148)
      INPUT G148, P1(1, 149)
      INPUT G149, P1(1, 150)
      INPUT G150, P1(1, 151)
      INPUT G151, P1(1, 152)
      INPUT G152, P1(1, 153)
      INPUT G153, P1(1, 154)
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      INPUT G159, P1(1, 160)
      INPUT G160, P1(1, 161)
      INPUT G161, P1(1, 162)
      INPUT G162, P1(1, 163)
      INPUT G163, P1(1, 164)
      INPUT G164, P1(1, 165)
      INPUT G165, P1(1, 166)
      INPUT G166, P1(1, 167)
      INPUT G167, P1(1, 168)
      INPUT G168, P1(1, 169)
      INPUT G169, P1(1, 170)
      INPUT G170, P1(1, 171)
      INPUT G171, P1(1, 172)
      INPUT G172, P1(1, 173)
      INPUT G173, P1(1, 174)
      INPUT G174, P1(1, 175)
      INPUT G175, P1(1, 176)
      INPUT G176, P1(1, 177)
      INPUT G177, P1(1, 178)
      INPUT G178, P1(1, 179)
      INPUT G179, P1(1, 180)
      INPUT G180, P1(1, 181)
      INPUT G181, P1(1, 182)
      INPUT G182, P1(1, 183)
      INPUT G183, P1(1, 184)
      INPUT G184, P1(1, 185)
      INPUT G185, P1(1, 186)
      INPUT G186, P1(1, 187)
      INPUT G187, P1(1, 188)
      INPUT G188, P1(1, 189)
      INPUT G189, P1(1, 190)
      INPUT G190, P1(1, 191)
      INPUT G191, P1(1, 192)
      INPUT G192, P1(1, 193)
      INPUT G193, P1(1, 194)
      INPUT G194, P1(1, 195)
      INPUT G195, P1(1, 196)
      INPUT G196, P1(1, 197)
      INPUT G197, P1(1, 198)
      INPUT G198, P1(1, 199)
      INPUT G199, P1(1, 200)
      INPUT G200, P1(1, 201)
      INPUT G201, P1(1, 202)
      INPUT G202, P1(1, 203)
      INPUT G203, P1(1, 204)
      INPUT G204, P1(1, 205)
      INPUT G205, P1(1, 206)
      INPUT G206, P1(1, 207)
      INPUT G207, P1(1, 208)
      INPUT G208, P1(1, 209)
      INPUT G209, P1(1, 210)
      INPUT G210, P1(1, 211)
      INPUT G211, P1(1, 212)
      INPUT G212, P1(1, 213)
      INPUT G213, P1(1, 214)
      INPUT G214, P1(1, 215)
      INPUT G215, P1(1, 216)
      INPUT G216, P1(1, 217)
      INPUT G217, P1(1, 218)
      INPUT G218, P1(1, 219)
      INPUT G219, P1(1, 220)
      INPUT G220, P1(1, 221)
      INPUT G221, P1(1, 222)
      INPUT G222, P1(1, 223)
      INPUT G223, P1(1, 224)
      INPUT G224, P1(1, 225)
      INPUT G225, P1(1, 226)
      INPUT G226, P1(1, 227)
      INPUT G227, P1(1, 228)
      INPUT G228, P1(1, 229)
      INPUT G229, P1(1, 230)
      INPUT G230, P1(1, 231)
      INPUT G231, P1(1, 232)
      INPUT G232, P1(1, 233)
      INPUT G233, P1(1, 234)
      INPUT G234, P1(1, 235)
      INPUT G235, P1(1, 236)
      INPUT G236, P1(1, 237)
      INPUT G237, P1(1, 238)
      INPUT G238, P1(1, 239)
      INPUT G
```


[illegible][illegible]

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10 REM.....
20 REM.....
30 REM THIS PROGRAM DISPLAYS THE ANALYSIS OF SIMPLY SUPPORTED RECTANGULAR
40 REM STRUCTURES WITH THREE TYPE BEAM END POINT DATA
100 REM.....
110 REM.....
120 REM.....
130 REM.....
140 REM.....
150 REM.....
160 REM.....
170 REM.....
180 REM.....
190 REM.....
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210 REM.....
220 REM.....
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430 REM.....
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770 REM.....
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810 REM.....
820 REM.....
830 REM.....
840 REM.....
850 REM.....
860 REM.....
870 REM.....
880 REM.....
890 REM.....
900 REM.....
910 REM.....
920 REM.....
930 REM.....
940 REM.....
950 REM.....
960 REM.....
970 REM.....
980 REM.....
990 REM.....
1000 REM.....

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1010 REM.....
1020 REM.....
1030 REM.....
1040 REM.....
1050 REM.....
1060 REM.....
1070 REM.....
1080 REM.....
1090 REM.....
1100 REM.....
1110 REM.....
1120 REM.....
1130 REM.....
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1170 REM.....
1180 REM.....
1190 REM.....
1200 REM.....
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1920 REM.....
1930 REM.....
1940 REM.....
1950 REM.....
1960 REM.....
1970 REM.....
1980 REM.....
1990 REM.....
2000 REM.....

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LOCATE 13, 13: PRINT "BLANK OR SLEW KEY NO. ...."
LOCATE 13, 48: INPUT 3
IF 1 < 6 OR 1 > 9 THEN GOTO 10010
10010 IF 1 = 6 THEN END
10100 IF 1 = 1 OR 1 = 3 THEN GOTO 10110
10110 IF 1 = 2 OR 1 = 4 OR 1 = 5 THEN GOTO 10120
10120 IF 1 = 6 OR 1 = 7 OR 1 = 8 OR 1 = 9 THEN GOTO 10130
10130 IF 1 = 10 OR 1 = 11 OR 1 = 12 OR 1 = 13 OR 1 = 14 OR 1 = 15 OR 1 = 16 OR 1 = 17 OR 1 = 18 OR 1 = 19 OR 1 = 20 OR 1 = 21 OR 1 = 22 OR 1 = 23 OR 1 = 24 OR 1 = 25 OR 1 = 26 OR 1 = 27 OR 1 = 28 OR 1 = 29 OR 1 = 30 OR 1 = 31 OR 1 = 32 OR 1 = 33 OR 1 = 34 OR 1 = 35 OR 1 = 36 OR 1 = 37 OR 1 = 38 OR 1 = 39 OR 1 = 40 OR 1 = 41 OR 1 = 42 OR 1 = 43 OR 1 = 44 OR 1 = 45 OR 1 = 46 OR 1 = 47 OR 1 = 48 OR 1 = 49 OR 1 = 50 OR 1 = 51 OR 1 = 52 OR 1 = 53 OR 1 = 54 OR 1 = 55 OR 1 = 56 OR 1 = 57 OR 1 = 58 OR 1 = 59 OR 1 = 60 OR 1 = 61 OR 1 = 62 OR 1 = 63 OR 1 = 64 OR 1 = 65 OR 1 = 66 OR 1 = 67 OR 1 = 68 OR 1 = 69 OR 1 = 70 OR 1 = 71 OR 1 = 72 OR 1 = 73 OR 1 = 74 OR 1 = 75 OR 1 = 76 OR 1 = 77 OR 1 = 78 OR 1 = 79 OR 1 = 80 OR 1 = 81 OR 1 = 82 OR 1 = 83 OR 1 = 84 OR 1 = 85 OR 1 = 86 OR 1 = 87 OR 1 = 88 OR 1 = 89 OR 1 = 90 OR 1 = 91 OR 1 = 92 OR 1 = 93 OR 1 = 94 OR 1 = 95 OR 1 = 96 OR 1 = 97 OR 1 = 98 OR 1 = 99 OR 1 = 100 OR 1 = 101 OR 1 = 102 OR 1 = 103 OR 1 = 104 OR 1 = 105 OR 1 = 106 OR 1 = 107 OR 1 = 108 OR 1 = 109 OR 1 = 110 OR 1 = 111 OR 1 = 112 OR 1 = 113 OR 1 = 114 OR 1 = 115 OR 1 = 116 OR 1 = 117 OR 1 = 118 OR 1 = 119 OR 1 = 120 OR 1 = 121 OR 1 = 122 OR 1 = 123 OR 1 = 124 OR 1 = 125 OR 1 = 126 OR 1 = 127 OR 1 = 128 OR 1 = 129 OR 1 = 130 OR 1 = 131 OR 1 = 132 OR 1 = 133 OR 1 = 134 OR 1 = 135 OR 1 = 136 OR 1 = 137 OR 1 = 138 OR 1 = 139 OR 1 = 140 OR 1 = 141 OR 1 = 142 OR 1 = 143 OR 1 = 144 OR 1 = 145 OR 1 = 146 OR 1 = 147 OR 1 = 148 OR 1 = 149 OR 1 = 150 OR 1 = 151 OR 1 = 152 OR 1 = 153 OR 1 = 154 OR 1 = 155 OR 1 = 156 OR 1 = 157 OR 1 = 158 OR 1 = 159 OR 1 = 160 OR 1 = 161 OR 1 = 162 OR 1 = 163 OR 1 = 164 OR 1 = 165 OR 1 = 166 OR 1 = 167 OR 1 = 168 OR 1 = 169 OR 1 = 170 OR 1 = 171 OR 1 = 172 OR 1 = 173 OR 1 = 174 OR 1 = 175 OR 1 = 176 OR 1 = 177 OR 1 = 178 OR 1 = 179 OR 1 = 180 OR 1 = 181 OR 1 = 182 OR 1 = 183 OR 1 = 184 OR 1 = 185 OR 1 = 186 OR 1 = 187 OR 1 = 188 OR 1 = 189 OR 1 = 190 OR 1 = 191 OR 1 = 192 OR 1 = 193 OR 1 = 194 OR 1 = 195 OR 1 = 196 OR 1 = 197 OR 1 = 198 OR 1 = 199 OR 1 = 200 OR 1 = 201 OR 1 = 202 OR 1 = 203 OR 1 = 204 OR 1 = 205 OR 1 = 206 OR 1 = 207 OR 1 = 208 OR 1 = 209 OR 1 = 210 OR 1 = 211 OR 1 = 212 OR 1 = 213 OR 1 = 214 OR 1 = 215 OR 1 = 216 OR 1 = 217 OR 1 = 218 OR 1 = 219 OR 1 = 220 OR 1 = 221 OR 1 = 222 OR 1 = 223 OR 1 = 224 OR 1 = 225 OR 1 = 226 OR 1 = 227 OR 1 = 228 OR 1 = 229 OR 1 = 230 OR 1 = 231 OR 1 = 232 OR 1 = 233 OR 1 = 234 OR 1 = 235 OR 1 = 236 OR 1 = 237 OR 1 = 238 OR 1 = 239 OR 1 = 240 OR 1 = 241 OR 1 = 242 OR 1 = 243 OR 1 = 244 OR 1 = 245 OR 1 = 246 OR 1 = 247 OR 1 = 248 OR 1 = 249 OR 1 = 250 OR 1 = 251 OR 1 = 252 OR 1 = 253 OR 1 = 254 OR 1 = 255 OR 1 = 256 OR 1 = 257 OR 1 = 258 OR 1 = 259 OR 1 = 260 OR 1 = 261 OR 1 = 262 OR 1 = 263 OR 1 = 264 OR 1 = 265 OR 1 = 266 OR 1 = 267 OR 1 = 268 OR 1 = 269 OR 1 = 270 OR 1 = 271 OR 1 = 272 OR 1 = 273 OR 1 = 274 OR 1 = 275 OR 1 = 276 OR 1 = 277 OR 1 = 278 OR 1 = 279 OR 1 = 280 OR 1 = 281 OR 1 = 282 OR 1 = 283 OR 1 = 284 OR 1 = 285 OR 1 = 286 OR 1 = 287 OR 1 = 288 OR 1 = 289 OR 1 = 290 OR 1 = 291 OR 1 = 292 OR 1 = 293 OR 1 = 294 OR 1 = 295 OR 1 = 296 OR 1 = 297 OR 1 = 298 OR 1 = 299 OR 1 = 300 OR 1 = 301 OR 1 = 302 OR 1 = 303 OR 1 = 304 OR 1 = 305 OR 1 = 306 OR 1 = 307 OR 1 = 308 OR 1 = 309 OR 1 = 310 OR 1 = 311 OR 1 = 312 OR 1 = 313 OR 1 = 314 OR 1 = 315 OR 1 = 316 OR 1 = 317 OR 1 = 318 OR 1 = 319 OR 1 = 320 OR 1 = 321 OR 1 = 322 OR 1 = 323 OR 1 = 324 OR 1 = 325 OR 1 = 326 OR 1 = 327 OR 1 = 328 OR 1 = 329 OR 1 = 330 OR 1 = 331 OR 1 = 332 OR 1 = 333 OR 1 = 334 OR 1 = 335 OR 1 = 336 OR 1 = 337 OR 1 = 338 OR 1 = 339 OR 1 = 340 OR 1 = 341 OR 1 = 342 OR 1 = 343 OR 1 = 344 OR 1 = 345 OR 1 = 346 OR 1 = 347 OR 1 = 348 OR 1 = 349 OR 1 = 350 OR 1 = 351 OR 1 = 352 OR 1 = 353 OR 1 = 354 OR 1 = 355 OR 1 = 356 OR 1 = 357 OR 1 = 358 OR 1 = 359 OR 1 = 360 OR 1 = 361 OR 1 = 362 OR 1 = 363 OR 1 = 364 OR 1 = 365 OR 1 = 366 OR 1 = 367 OR 1 = 368 OR 1 = 369 OR 1 = 370 OR 1 = 371 OR 1 = 372 OR 1 = 373 OR 1 = 374 OR 1 = 375 OR 1 = 376 OR 1 = 377 OR 1 = 378 OR 1 = 379 OR 1 = 380 OR 1 = 381 OR 1 = 382 OR 1 = 383 OR 1 = 384 OR 1 = 385 OR 1 = 386 OR 1 = 387 OR 1 = 388 OR 1 = 389 OR 1 = 390 OR 1 = 391 OR 1 = 392 OR 1 = 393 OR 1 = 394 OR 1 = 395 OR 1 = 396 OR 1 = 397 OR 1 = 398 OR 1 = 399 OR 1 = 400 OR 1 = 401 OR 1 = 402 OR 1 = 403 OR 1 = 404 OR 1 = 405 OR 1 = 406 OR 1 = 407 OR 1 = 408 OR 1 = 409 OR 1 = 410 OR 1 = 411 OR 1 = 412 OR 1 = 413 OR 1 = 414 OR 1 = 415 OR 1 = 416 OR 1 = 417 OR 1 = 418 OR 1 = 419 OR 1 = 420 OR 1 = 421 OR 1 = 422 OR 1 = 423 OR 1 = 424 OR 1 = 425 OR 1 = 426 OR 1 = 427 OR 1 = 428 OR 1 = 429 OR 1 = 430 OR 1 = 431 OR 1 = 432 OR 1 = 433 OR 1 = 434 OR 1 = 435 OR 1 = 436 OR 1 = 437 OR 1 = 438 OR 1 = 439 OR 1 = 440 OR 1 = 441 OR 1 = 442 OR 1 = 443 OR 1 = 444 OR 1 = 445 OR 1 = 446 OR 1 = 447 OR 1 = 448 OR 1 = 449 OR 1 = 450 OR 1 = 451 OR 1 = 452 OR 1 = 453 OR 1 = 454 OR 1 = 455 OR 1 = 456 OR 1 = 457 OR 1 = 458 OR 1 = 459 OR 1 = 460 OR 1 = 461 OR 1 = 462 OR 1 = 463 OR 1 = 464 OR 1 = 465 OR 1 = 466 OR 1 = 467 OR 1 = 468 OR 1 = 469 OR 1 = 470 OR 1 = 471 OR 1 = 472 OR 1 = 473 OR 1 = 474 OR 1 = 475 OR 1 = 476 OR 1 = 477 OR 1 = 478 OR 1 = 479 OR 1 = 480 OR 1 = 481 OR 1 = 482 OR 1 = 483 OR 1 = 484 OR 1 = 485 OR 1 = 486 OR 1 = 487 OR 1 = 488 OR 1 = 489 OR 1 = 490 OR 1 = 491 OR 1 = 492 OR 1 = 493 OR 1 = 494 OR 1 = 495 OR 1 = 496 OR 1 = 497 OR 1 = 498 OR 1 = 499 OR 1 = 500 OR 1 = 501 OR 1 = 502 OR 1 = 503 OR 1 = 504 OR 1 = 505 OR 1 = 506 OR 1 = 507 OR 1 = 508 OR 1 = 509 OR
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