TABLE 1

Abbreviated data entry requests and user input for the example described in this paper.

Data entry request	User input	Comments
1: Unit system	0	SI
2: Type of beam	1	Simple
3: Length of the beam	10	
4: Positions of left and right supports	[0,10]	
5: Number of point, moment, and distributed loads	[1,0,1]	
6: Position, magnitude, and angle for point load # 1	[8,50,90]	
7: Position and value for the left and right ends of distributed load #1	[0, -7, 10, -7]	
8: Number of points where shear and moment values are wanted	0	

Note for item 7 above: Load values must be provided for the left and right ends of the load, even if they are the same, as is the case for the uniformly distributed load presented in this example. The reason is because the program treats all loads as trapezoidal. Uniform (also called rectangular) and triangular distributed loads are just special cases of trapezoidal loads.