

! Keywords: Demand Backlog / Distribution / Inventory / Network / Product Management /
Production / Reorder Point / Shipping / Transportation / Geographic;

! A 3 level distribution problem;

MIN AX + 2 AY + 3 BX + BY + 2 BZ + 5 X1 + 7 X2
 + 9 Y1 + 6 Y2 + 7 Y3 + 8 Z2 + 7 Z3 + 4 Z4

SUBJECT TO

- 2) AX + AY = 9
- 3) BX + BY + BZ = 8
- 4) - AX - BX + X1 + X2 = 0
- 5) - AY - BY + Y1 + Y2 + Y3 = 0
- 6) - BZ + Z2 + Z3 + Z4 = 0
- 7) - X1 - Y1 = -3
- 8) - X2 - Y2 - Z2 = -5
- 9) - Y3 - Z3 = -4
- 10) - Z4 = -5

END