```
minimize PF12a6 + PF6a9 + PF9a3 + PF3a6 + PF6a12
subject to
 c1:T12a6_1 <= 12
 c2:T6a9_1 <= 12
 c3:T9a3_1 <= 12
 c4:T3a6_1 <= 12
 c5:T6a12_1 <= 12
 c6:T12a6_2 <= 10
 c7:T6a9_2 <= 10
 c8:T9a3_2 <= 10
 c9:T3a6_2 <= 10
 c10:T6a12_2 <= 10
 c11:T12a6_3 <= 5
 c12:T6a9_3 <= 5
 c13:T9a3_3 <= 5
 c14:T3a6_3 <= 5
 c15:T6a12_3 <= 5
 c16:C12a6_1 - 850 T12a6_1 >= 0
 c17:C12a6_1 - 2000 T12a6_1 <= 0
 c18:F12a6_1 - C12a6_1 + 850 T12a6_1 = 0
 c19:P12a6_1 - 2 F12a6_1 - 6000 T12a6_1 = 2000
 c20:C12a6_2 - 1250 T12a6_2 >= 0
 c21:C12a6_2 - 1750 T12a6_2 <= 0
 c22:F12a6_2 - C12a6_2 + 1250 T12a6_3 = 0
 c23:P12a6_2 - 1.30 F12a6_2 - 15600 T12a6_3 = 1000
 c24:C12a6_3 - 1500 T12a6_3 >= 0
 c25:C12a6_3 - 4000 T12a6_3 <= 0
 c26:F12a6_3 - C12a6_3 + 1500 T12a6_3 = 0
 c27:P12a6_3 - 3 F12a6_3 - 18000 T12a6_3 = 500
 c28:PF12a6 - P12a6_1 - P12a6_2 - P12a6_3 = 0
 c29:C6a9_1 - 850 T6a9_1 >= 0
 c30:C6a9_1 - 2000 T6a9_1 <= 0
 c31:F6a9_1 - C6a9_1 + 850 T6a9_1 = 0
 c32:P6a9_1 - 2 F6a9_1 - 3000 T6a9_1 = 2000
 c33:C6a9_2 - 1250 T6a9_2 >= 0
 c34:C6a9_2 - 1750 T6a9_2 <= 0
 c35:F6a9_2 - C6a9_2 + 1250 T6a9_2 = 0
 c36:P6a9_2 - 1.30 F6a9_2 + 15600 T6a9_2 = 1000
 c37:C6a9_3 - 1500 T6a9_3 >= 0
 c38:C6a9_3 - 4000 T6a9_3 <= 0
 c39:F6a9_3 - C6a9_3 + 1500 T6a9_3 = 0
 c40:P6a9_3 - 3 F6a9_3 - 9000 T6a9_3 = 500
 c41:PF6a9 - P6a9_1 - P6a9_2 - P6a9_3 = 0
 c42:C9a3_1 - 850 T9a3_1 >= 0
 c43:C9a3_1 - 2000 T9a3_1 <= 0
 c44:F9a3_1 - C9a3_1 + 850 T9a3_1 = 0
 c45:P9a3_1 - 2 F9a3_1 - 6000 T9a3_1 = 2000
 c46:C9a3_2 - 1250 T9a3_2 >= 0
 c47:C9a3_2 - 1750 T9a3_2 <= 0
 c48:F9a3_2 - C9a3_2 + 1250 T9a3_2 = 0
 c49:P9a3_2 - 1.30 F9a3_2 - 15600 T9a3_2 = 1000
 c50:C9a3_3 - 1500 T9a3_3 >= 0
 c51:C9a3_3 - 4000 T9a3_3 <= 0
 c52:F9a3_3 - C9a3_3 + 1500 T9a3_3 = 0
 c53:P9a3_3 - 3 F9a3_3 - 18000 T9a3_3 = 500
 c54:PF9a3 - P9a3_1 - P9a3_2 - P9a3_3 = 0
 c55:C3a6_1 - 850 T3a6_1 >= 0
 c56:C3a6_1 - 2000 T3a6_1 <= 0
 c57:F3a6_1 - C3a6_1 + 850 T3a6_1 = 0
 c58:P3a6_1 - 2 F3a6_1 - 3000 T3a6_1 = 2000
 c59:C3a6_2 - 1250 T3a6_2 >= 0
 c60:C3a6_2 - 1750 T3a6_2 <= 0
 c61:F3a6_2 - C3a6_2 + 1250 T3a6_2 = 0
 c62:P3a6_2 - 1.30 F3a6_2 - 15600 T3a6_2 = 1000
```

```
c63:C3a6_3 - 1500 T3a6_3 >= 0
c64:C3a6_3 - 4000 T3a6_3 <= 0
c65:F3a6_3 - C3a6_3 + 1500 T3a6_3 = 0
c66:P3a6_3 - 3 F3a6_3 - 9000 T3a6_3 = 500
c67:PF3a6 - P3a6_1 - P3a6_2 - P3a6_3 = 0
c68:C6a12_1 - 850 T6a12_1 >= 0
c69:C6a12_1 - 2000 T6a12_1 <= 0
c70:F6a12_1 - C6a12_1 + 850 T6a12_1 = 0
c71:P6a12_1 - 2 F6a12_1 - 6000 T6a12_1 = 2000
c72:C6a12_2 - 1250 T6a12_2 >= 0
c73:C6a12_2 - 1750 T6a12_2 <= 0
c74:F6a12_2 - C6a12_2 + 1250 T6a12_2 = 0
c75:P6a12_2 - 1.30 F6a12_2 - 15600 T6a12_2 = 1000
c76:C6a12_3 - 1500 T6a12_3 >= 0
c77:C6a12_3 - 4000 T6a12_3 <= 0
c78:F6a12_3 - C6a12_3 + 1500 T6a12_3 = 0
c79:P6a12_3 - 3 F6a12_3 - 18000 T6a12_3 = 500
c80:PF6a12 - P6a12_1 - P 6a12_2 - P6a12_3 = 0
c81:C12a6_1 + C12a6_2 + C12a6_3 >= 17250
c82:C6a9_1 + C6a9_2 + C6a9_3 >= 34500
c83:C9a3_1 + C9a3_2 + C9a3_3 >= 28750
c84:C3a6_1 + C3a6_2 + C3a6_3 >= 46000
c85:C6a12_1 + C6a12_2 + C6a12_3 >= 31050
end
```