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MODEL:
SETS:
DATA_SET1/M1..M12/: S1;
DATA_SET2/N1..N11/: S2;
DIMENSION/D1..D2/: DIM;
SET1_MTX(DATA_SET1,DIMENSION):SET1;
SET2_MTX(DATA_SET2,DIMENSION):SET2;
ENDSETS

DATA:
SET1=
    60      18.4
    85.5    16.8
    64.8    21.6
    61.5    20.8
    87      23.6
    110.1   19.2
    108     17.6
    82.8    22.4
    69 20
    93 20.8
    51 22
    81 20;

SET2=
    52.8    20.8
    64.8    17.2
    43.2    20.4
    84 17.6
    49.2    17.6
    59.4    16
    66 18.4
    47.4    16.4
    33 18.8
    51 14
    63 14.8;
ENDDATA

MIN=@SUM(DATA_SET1(i):S1(i))+@SUM(DATA_SET2(i):S2(i));

@FOR(DATA_SET1(i):S1(i)>=0);
@FOR(DATA_SET2(i):S2(i)>=0);
@FOR(DATA_SET1(i):S1(i)>(SET1(i,1)*a-SET1(i,2)+b+1));
@FOR(DATA_SET2(i):S2(i)>(-SET2(i,1)*a+SET2(i,2)+b+1));
@FREE(a);
@FREE(b);

END

*****result*****
Global optimal solution found.
Objective value:                0.000000
Infeasibilities:                0.000000
Total solver iterations:        2
Elapsed runtime seconds:        0.19

Model Class:                    LP

Total variables:                27
Nonlinear variables:            0
Integer variables:              0

Total constraints:              47
Nonlinear constraints:          0

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Total nonzeros: 115
 Nonlinear nonzeros: 0

Variable	Value	Reduced Cost
A	0.2581560	0.000000
B	-11.28085	0.000000
S1 (M1)	0.000000	1.000000
S1 (M2)	0.000000	1.000000
S1 (M3)	0.000000	1.000000
S1 (M4)	0.000000	1.000000
S1 (M5)	0.000000	1.000000
S1 (M6)	0.000000	1.000000
S1 (M7)	0.000000	1.000000
S1 (M8)	0.000000	1.000000
S1 (M9)	0.000000	1.000000
S1 (M10)	0.000000	1.000000
S1 (M11)	0.000000	1.000000
S1 (M12)	0.000000	1.000000
S2 (N1)	0.000000	1.000000
S2 (N2)	0.000000	1.000000
S2 (N3)	0.000000	1.000000
S2 (N4)	0.000000	1.000000
S2 (N5)	0.000000	1.000000
S2 (N6)	0.000000	1.000000
S2 (N7)	0.000000	1.000000
S2 (N8)	0.000000	1.000000
S2 (N9)	0.000000	1.000000
S2 (N10)	0.000000	1.000000
S2 (N11)	0.000000	1.000000
DIM (D1)	1.234568	0.000000
DIM (D2)	1.234568	0.000000
SET1 (M1, D1)	60.00000	0.000000
SET1 (M1, D2)	18.40000	0.000000
SET1 (M2, D1)	85.50000	0.000000
SET1 (M2, D2)	16.80000	0.000000
SET1 (M3, D1)	64.80000	0.000000
SET1 (M3, D2)	21.60000	0.000000
SET1 (M4, D1)	61.50000	0.000000
SET1 (M4, D2)	20.80000	0.000000
SET1 (M5, D1)	87.00000	0.000000
SET1 (M5, D2)	23.60000	0.000000
SET1 (M6, D1)	110.1000	0.000000
SET1 (M6, D2)	19.20000	0.000000
SET1 (M7, D1)	108.0000	0.000000
SET1 (M7, D2)	17.60000	0.000000
SET1 (M8, D1)	82.80000	0.000000
SET1 (M8, D2)	22.40000	0.000000
SET1 (M9, D1)	69.00000	0.000000
SET1 (M9, D2)	20.00000	0.000000
SET1 (M10, D1)	93.00000	0.000000
SET1 (M10, D2)	20.80000	0.000000
SET1 (M11, D1)	51.00000	0.000000
SET1 (M11, D2)	22.00000	0.000000
SET1 (M12, D1)	81.00000	0.000000
SET1 (M12, D2)	20.00000	0.000000
SET2 (N1, D1)	52.80000	0.000000
SET2 (N1, D2)	20.80000	0.000000

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