CPXPARAM\_Read\_DataCheck 2

CPXPARAM\_LPMethod 4

CPXPARAM\_QPMethod 4

CPXPARAM\_MIP\_Strategy\_StartAlgorithm 4

CPLEX Warning 1041: In constraint 'c3317605', where variable 'X\_fx\_chrg({"A1"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317606', where variable 'X\_fx\_chrg({"A3"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317607', where variable 'X\_fx\_chrg({"NewA3"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317608', where variable 'X\_fx\_chrg({"A4"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317609', where variable 'X\_fx\_chrg({"A5"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317610', where variable 'X\_fx\_chrg({"A6"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317611', where variable 'X\_fx\_chrg({"A7"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317612', where variable 'X\_fx\_chrg({"A8"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317613', where variable 'X\_fx\_chrg({"A9"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: In constraint 'c3317614', where variable 'X\_fx\_chrg({"A10"})' has a coefficient of 1e+07, consider using an indicator.

CPLEX Warning 1041: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A20")', binary variable 'X\_rnew({"B1","A1"})' is linked with variable 'H({"B1","A1"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A21")', binary variable 'X\_rnew({"B1","A3"})' is linked with variable 'H({"B1","A3"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("NewA21")', binary variable 'X\_rnew({"B1","NewA3"})' is linked with variable 'H({"B1","NewA3"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A11")', binary variable 'X\_rnew({"B1","A4"})' is linked with variable 'H({"B1","A4"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A12")', binary variable 'X\_rnew({"B1","A5"})' is linked with variable 'H({"B1","A5"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A13")', binary variable 'X\_rnew({"B1","A6"})' is linked with variable 'H({"B1","A6"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A16")', binary variable 'X\_rnew({"B1","A7"})' is linked with variable 'H({"B1","A7"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A17")', binary variable 'X\_rnew({"B1","A8"})' is linked with variable 'H({"B1","A8"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A18")', binary variable 'X\_rnew({"B1","A9"})' is linked with variable 'H({"B1","A9"})' having ratio 1e+07.

CPLEX Warning 1042: In constraint 'ct\_2("B1")("A19")', binary variable 'X\_rnew({"B1","A10"})' is linked with variable 'H({"B1","A10"})' having ratio 1e+07.

CPLEX Warning 1042: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

CPLEX Warning 1040: In constraint 'c23609', variable 'X\_bat("A1")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23610', variable 'X\_bat("A3")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23611', variable 'X\_bat("NewA3")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23612', variable 'X\_bat("A4")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23613', variable 'X\_bat("A5")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23614', variable 'X\_bat("A6")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23615', variable 'X\_bat("A7")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23616', variable 'X\_bat("A8")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23617', variable 'X\_bat("A9")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: In constraint 'c23618', variable 'X\_bat("A10")' has a coefficient 1e+16 times larger than second largest.

CPLEX Warning 1040: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{948,"A16","A13",2}' looks like 17/50 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{948,"A12","A11",2}' looks like 3/50 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{952,"A11","A12",2}' looks like 1/50 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{952,"A13","A16",2}' looks like 39/50 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{962,"A17","A19",2}' looks like 9/100 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{966,"A16","A13",2}' looks like 1/5 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{966,"A13","A12",2}' looks like 9/10 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{966,"A12","A14",2}' looks like 7/10 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{966,"A14","A15",2}' looks like 1/5 in single precision.

CPLEX Warning 1036: Decimal part of coefficient for right-hand side in constraint 'ct\_11{966,"A15","A16",2}' looks like 3/10 in single precision.

CPLEX Warning 1036: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c3' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+11.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23609' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23610' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23611' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23612' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23613' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23614' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23615' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23616' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Detected constraint with wide range of coefficients. In constraint 'c23617' the ratio of largest and smallest (in abB1ute value) coefficients is 1e+16.

CPLEX Warning 1048: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{449,"A20","A20",1}' and constraint 'c3187224'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{375,"Kaohsiung-1","Kaohsiung-3",1}' and constraint 'c3187574'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'c3187578' and constraint 'c3187662'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'c3187175' and constraint 'c3187222'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{336,"A12","A14",1}' and constraint 'ct\_11{722,"A17","A18",1}'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{370,"Tainan-3","A17",1}' and constraint 'c3187631'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{509,"A17","Kaohsiung-1",1}' and constraint 'c3187401'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{853,"Kaohsiung-1","A17",1}' and constraint 'c3187389'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{937,"A14","A15",1}' and constraint 'c3187559'.

CPLEX Warning 1056: the righthand side vector has almost equal coefficients for constraint 'ct\_11{722,"Taichung-3","A17",1}' and constraint 'c3187678'.

CPLEX Warning 1056: Too many warnings of this type have been detected. All further warnings of this type will be ignored.

PreB1ve has eliminated 447851 rows and 336500 columns...

PreB1ve has improved bounds 5803610 times...

PreB1ve has eliminated 447851 rows and 336500 columns...

PreB1ve has improved bounds 6287829 times...

Aggregator has done 132652 substitutions...

Tried aggregator 2 times.

MIP PreB1ve eliminated 448066 rows and 336591 columns.

MIP PreB1ve added 2 rows and 0 columns.

MIP PreB1ve modified 11954 coefficients.

Aggregator did 132652 substitutions.

Reduced MIP has 2867644 rows, 3665298 columns, and 17387329 nonzeros.

Reduced MIP has 135 binaries, 0 generals, 0 SOSs, and 0 indicators.

PreB1ve time = 33.79 sec. (53923.33 ticks)

Probing time = 6.46 sec. (963.23 ticks)

PreB1ve has eliminated 0 rows and 0 columns...

Tried aggregator 1 time.

MIP PreB1ve modified 28 coefficients.

Reduced MIP has 2867644 rows, 3665298 columns, and 17387329 nonzeros.

Reduced MIP has 135 binaries, 0 generals, 0 SOSs, and 0 indicators.

PreB1ve time = 19.91 sec. (14508.38 ticks)

Probing time = 3.92 sec. (416.07 ticks)

Clique table members: 108.

MIP emphasis: balance optimality and feasibility.

MIP search method: dynamic search.

Parallel mode: deterministic, using up to 8 threads.