<untitled> #28

```
MODELS
Model-01
               Flashlight
Model-02
               Radio
Model-03
               Toy Car
Model-04
               Ball Point Pen
If model-01 is disassemble in line -- 1; otherwise -- 0 = 0
If model-02 is disassemble in line -- 1; otherwise -- 0 = 0
If model-03 is disassemble in line -- 1; otherwise -- 0 = 1
If model-04 is disassemble in line -- 1; otherwise -- 0 = 1
  ______
Warning: your license will expire in 3 days
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Using license file C:\gurobi903\win64\bin\gurobi.lic
Academic license - for non-commercial use only
Gurobi Optimizer version 9.0.3 build v9.0.3rc0 (win64)
Optimize a model with 79088 rows, 6048 columns and 395541 nonzeros
Model fingerprint: 0x1c515917
Variable types: 117 continuous, 5931 integer (5931 binary)
Coefficient statistics:
 Matrix range
                  [1e+00, 1e+05]
 Objective range [2e-06, 1e+00]
 Bounds range
                 [1e+00, 1e+00]
 RHS range
                 [1e+00, 3e+05]
Presolve removed 62402 rows and 2218 columns
Presolve time: 2.15s
Presolved: 16686 rows, 3830 columns, 82363 nonzeros
Variable types: 105 continuous, 3725 integer (3725 binary)
Found heuristic solution: objective 3.0112910
Root relaxation: objective 2.011948e+00, 267 iterations, 0.05 seconds
                 Current Node
                                     Objective Bounds
Expl Unexpl | Obj Depth IntInf | Incumbent
                                              BestBd Gap | It/Node Time
    0
          0
               2.01195
                                   3.01129
                                             2.01195 33.2%
                                                                    2s
                              6
    0
                                 3.0102660
                                             2.01195 33.2%
                                                                    2s
Н
          a
               3.00927
                         a
                             12
                                   3.01027
                                             3.00927 0.03%
```

Explored 1 nodes (910 simplex iterations) in 3.83 seconds Thread count was 4 (of 4 available processors)

0

21

Solution count 3: 3.01027 3.01027 3.01129

3.00943

a

a

Optimal solution found (tolerance 1.00e-04)

Best objective 3.010266000000e+00, best bound 3.010266000000e+00, gap 0.0000% <gurobi.Model MIP instance MILP Model: 79088 constrs, 6048 vars, No parameter changes>

3.01027

3.00943 0.03%

2s

3s

Page 1, last modified [no file date] [no file time]

<untitled> #28

Solution Results

Time = 10.465916872024536 second				
Total number of	stations opened	from both sides	: 2.0	
Total number of	stations opened	from only one side	: 1.0	
Total number of	stations opened		: 5.0	
#### MODEL- m3 ####				
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time
('m3', 2) :	[(1, 1)]	3	0.0	3.0
('m3', 7) :	[(1, 1)]	37	3.0	40.0
('m3', 13) :	[(3, 1)]	2	11.0	13.0
('m3', 33):	[(3, 1)]	10	27.0	37.0
('m3', 49) :	[(2, 2)]	34	0.0	34.0
('m3', 74) :	[(3, 1)]	11	0.0	11.0
('m3', 96) :	[(3, 2)]	29	11.0	40.0
('m3', 97) :	[(3, 1)]	14	13.0	27.0
#### MODEL- m4 ####				
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time
('m4', 1) :	[(1, 1)]	5	0.0	5.0
('m4', 4) :	[(1, 2)]	7	22.0	29.0
('m4', 6) :	[(1, 1)]	11	29.0	40.0
('m4', 9) :	[(1, 2)]	16	5.0	21.0
('m4', 11) :	[(3, 1)]	33	0.0	33.0
('m4', 13) :	[(1, 1)]	6	23.0	29.0
('m4', 17) :	[(2, 2)]	16	0.0	16.0
('m4', 18) :	[(3, 2)]	32	0.0	32.0