<untitled> #340

```
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 = 1
If model-02 is disassemble in line -- 1; otherwise -- \theta = \theta
If model-03 is disassemble in line -- 1; otherwise -- 0 = 1
If model-04 is disassemble in line -- 1; otherwise -- 0 = 0
Warning: your license will expire in 4 days
-----
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 76653 rows, 5803 columns and 383355 nonzeros
Model fingerprint: 0x6b50d946
Variable types: 107 continuous, 5696 integer (5696 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 60117 rows and 2038 columns
Presolve time: 2.01s
Presolved: 16536 rows, 3765 columns, 81667 nonzeros
Variable types: 98 continuous, 3667 integer (3667 binary)
Found heuristic solution: objective 3.0102640
Root relaxation: objective 2.011726e+00, 128 iterations, 0.03 seconds
```

	Node	s	Cu	rrent	Node	<u> </u>	Objec	tive Bound	ds	Worl	<
Ex	kpl Un	expl	Obj	Dept	h Int	:Inf	Incumbent	BestB	d Gap	It/Node	Time
	0	0	3.00	925	0	14	3.01026	3.0092	5 0.03%	-	2s
	0	0	3.00	925	0	6	3.01026	3.0092	5 0.03%	-	2s
	0	0	3.00	926	0	6	3.01026	3.0092	6 0.03%	-	3s
	0	0	3.00	926	0	5	3.01026	3.0092	6 0.03%	-	3s
Н	0	0					3.0092440	3.0092	4 0.00%	-	4s
	0	0	3.00	926	0	5	3.00924	3.0092	4 0.00%	-	4s

Cutting planes:

Gomory: 1 Cover: 3 MIR: 6 GUB cover: 1

Explored 1 nodes (639 simplex iterations) in 4.02 seconds

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

<untitled> #340

Thread count was 4 (of 4 available processors)

Solution count 3: 3.00924 3.01026 3.01026

Optimal solution found (tolerance 1.00e-04)
Best objective 3.009244000000e+00, best bound 3.009244000000e+00, gap 0.0000%

<gurobi.Model MIP instance MILP Model: 76653 constrs, 5803 vars, No parameter changes>

Solution Results

Time = 10.09824	13236541748 second	d										
Total number of	stations opened	from both sides	: 1.0									
Total number of	stations opened i	from only one side	: 2.0									
Total number of	stations opened		: 4.0									
#### MODEL- m1 ####												
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time								
('m1', 1) :	[(1, 1)]	30	10.0	40.0								
('m1', 3) :	[(3, 2)]	12	0.0	12.0								
('m1', 6) :	[(3, 1)]	21	17.9999999999999	97								
38.99999999997												
('m1', 7) :	[(3, 1)]	6	11.99999999999999	968								
17.999999999988												
('m1', 9) :	[(2, 2)]	25	15.0	40.0								
('m1', 10) :	[(3, 1)]	10	1.99999999999999	58								
11.999999999988												
#### MODEL- m3	####											
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time								
('m3', 1) :	[(1, 1)]	37	0.0	37.0								
('m3', 4) :	[(3, 1)]	3	25.0	28.0								
('m3', 13) :	[(3, 1)]	2	28.0	30.0								
('m3', 33):	[(3, 1)]	10	30.0	40.0								
('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	11.0	25.0								