<untitled> #37

```
MODELS
Model-01
              Flashlight
Model-02
              Radio
Model-03
              Toy Car
              Ball Point Pen
Model-04
If model-01 is disassemble in line -- 1; otherwise -- 0 = 1
If model-02 is disassemble in line -- 1; otherwise -- 0 = 1
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
-----
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 87256 rows, 6944 columns and 436239 nonzeros
Model fingerprint: 0x49b15a96
Variable types: 157 continuous, 6787 integer (6787 binary)
Coefficient statistics:
 Matrix range
                 [1e+00, 1e+05]
 Objective range [1e-06, 1e+00]
 Bounds range
                [1e+00, 1e+00]
 RHS range
                 [1e+00, 3e+05]
Presolve removed 72682 rows and 3111 columns
Presolve time: 2.38s
Presolved: 14574 rows, 3833 columns, 71431 nonzeros
Variable types: 130 continuous, 3703 integer (3703 binary)
Found heuristic solution: objective 3.0124990
Root relaxation: objective 3.009457e+00, 274 iterations, 0.05 seconds
```

Nodes		Current Node			Objective Bounds			Work		
Exp	ol Une	expl	Obj Dep	th Int	Inf	Incumbent	BestBd	Gap	It/Node	Time
	0	0	3.00946	0	25	3.01250	3.00946	0.10%	-	2s
Н	0	0				3.0124760	3.00946	0.10%	-	2s
Н	0	0				3.0124560	3.00946	0.10%	-	2s
	0	0	3.00947	0	49	3.01246	3.00947	0.10%	-	2s
Н	0	0				3.0104560	3.00947	0.03%	-	3s
	0	0	3.00947	0	49	3.01046	3.00947	0.03%	-	3s
	0	0	3.00996	0	30	3.01046	3.00996	0.02%	-	3s
	0	0	3.00996	0	28	3.01046	3.00996	0.02%	-	3s
	0	0	3.00996	0	20	3.01046	3.00996	0.02%	-	3s
Н	0	0				3.0104520	3.00996	0.02%	-	3s
	0	0	cutoff	0		3.01045	3.01045	0.00%	-	3s

Explored 1 nodes (1010 simplex iterations) in 3.89 seconds Thread count was 4 (of 4 available processors)

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

Solution count 5: 3.01045 3.01046 3.01246 ... 3.0125

Solution Results

Time 11 2201	16007110751	٠.					
	16907119751 secor stations opened		: 2.0				
	•	from only one side	: 2.0 : 1.0				
	stations opened	Troil only one side	: 5.0				
#### MODEL- m3	####		. 5.0				
(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	13.0	23.0			
('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	23.0	37.0			
#### MODEL- m2	####						
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time			
('m2', 1) :	[(1, 2)]	11	0.0	11.0			
('m2', 3) :	[(1, 1)]	20	11.0	31.0			
('m2', 4) :	[(2, 2)]	14	0.0	14.0			
('m2', 5) :	[(2, 2)]	19	14.0	33.0			
('m2', 6) :	[(3, 2)]	1	5.0	6.0			
('m2', 9) :	[(3, 1)]	6	34.0	40.0			
('m2', 17) :	[(3, 2)]	6	24.0000000000000	003			
30.000000000000	03						
('m2', 29):	[(3, 1)]	4	30.0	34.0			
('m2', 30):	[(3, 2)]	5	0.0	5.0			
#### MODEL- m1	####						
(m, i)	(j,s)	Processing Time	Starting Time	Ending Time			
('m1', 2) :	[(1, 2)]	28	0.0	28.0			
('m1', 5) :	[(2, 2)]	13	0.0	13.0			
('m1', 7) :	[(3, 1)]	6	0.0	6.0			
('m1', 8) :	[(2, 2)]	18	13.0	31.0			
('m1', 9) :	[(3, 2)]	25	0.0	25.0			
('m1', 10) :	[(3, 2)]	10	25.0	35.0			
#### 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	5.0	12.0			
('m4', 6) :	[(2, 2)]	11	29.0	40.0			
('m4', 9) :	[(1, 2)]	16	12.0	28.0			
('m4', 11):	[(3, 1)]	33	5.9999999999999	972			
38.9999999999							

Page 2, last modified [no file date] [no file time]

<untitled> #37

('m4', 13) :	[(1, 1)]	6	28.0	34.0
('m4', 17) :	[(2, 2)]	16	0.0	16.0
('m4', 18) :	[(3, 2)]	32	8.0	40.0