```
this paper\Scripts\python.exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=
     client --port=6958
     import sys; print('Python %s on %s' % (sys.version, sys.platform))
 4
     6
     PyDev console: starting
     Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
 8
     >>> runfile('E:/1 000/3 0000/1 00000/1 00000/1 00000/1 00000/1 LW_000/4 000/3 python_code/9 Code for this paper/main_RO_CCG.py', wdir='E:/1 0000/3 0000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 000000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 000000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00000/1 00
     this paper'
    Backend TkAgg is interactive backend. Turning interactive mode on.
     Waiting 5s.....
     Set parameter MIPGap to value 1e-10
12
     Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
13
15
     CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
     Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
16
     Optimize a model with 486009 rows, 40692 columns and 1332989 nonzeros
     Model fingerprint: 0x3bc9eb93
     Variable types: 1 continuous, 40691 integer (40663 binary)
20
21
     Coefficient statistics:
      Matrix range [1e+00, 1e+10]
      Objective range [1e+00, 2e+01]
23
24
      Bounds range [1e+00, 1e+00]
                          [1e+00, 2e+10]
      RHS range
26
     Warning: Model contains large matrix coefficients
27
     Warning: Model contains large rhs
28
            Consider reformulating model or setting NumericFocus parameter
29
            to avoid numerical issues.
30
     Presolve removed 283849 rows and 17804 columns (presolve time = 5s) ...
31
     Presolve removed 443004 rows and 28454 columns
     Presolve time: 9.86s
     Presolved: 43005 rows, 12238 columns, 171177 nonzeros
34
     Variable types: 0 continuous, 12238 integer (12217 binary)
35
     Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
37
     Showing first log only...
38
39
     Root relaxation presolved: 43000 rows, 12243 columns, 171162 nonzeros
40
41
42
     Root simplex log...
43
44
     Iteration Objective
                                   Primal Inf. Dual Inf.
          0 7.6100000e+02 9.125000e+01 1.761712e+08
45
46
     Concurrent spin time: 0.00s
48
     Solved with dual simplex (primal model)
49
50
     Root relaxation: objective 7.610000e+02, 2637 iterations, 0.26 seconds (0.27 work units)
51
        Nodes | Current Node | Objective Bounds
52
                                                                            Work
53
      Expl Unexpl | Obj Depth IntInf | Incumbent BestBd Gap | It/Node Time
54
              0 761.00000 0 21
55
                                                - 761.00000
                                2461.0000000 761.00000 69.1% - 11s
56
    H = 0
57
     Η
          0
                                2361.0000000 761.00000 67.8%
                                2321.0000000 761.00000 67.2%
58
    Η
59
        0 0 761.00000 0 88 2321.00000 761.00000 67.2%
60
    H \quad 0 \quad 0
                                2041.0000000 761.00000 62.7%
              0 761.00000 0 316 2041.00000 761.00000 62.7% -
         0
              0 761.00000 0 306 2041.00000 761.00000 62.7%
                                                                                  - 13s
62
              0 761.00000 0 31 2041.00000 761.00000 62.7% - 15s
63
         0
64
              0 761.00000 0 324 2041.00000 761.00000 62.7%
                                                                                   - 16s
                                 0 310 2041.00000 761.00000 62.7%
65
              0 761.00000
                                                                                       16s
              0 761.00000 0 104 2041.00000 761.00000 62.7%
66
         0
                                                                                    - 19s
              0\ 761.00000\ 0\ 103\ 2041.00000\ 761.00000\ 62.7\%
67
         0
                                                                                    - 19s
68
         0
              0 761.00000
                               0 154 2041.00000 761.00000 62.7%
                                                                                        19s
              0 761.00000 0 153 2041.00000 761.00000 62.7%
69
70
              0 761.00000 0 30 2041.00000 761.00000 62.7%
         0
                                                                                   - 23s
71
         0
              0 761.00000
                                 0 30 2041.00000 761.00000 62.7%
                                                                                      23s
              2 761.00000 0 30 2041.00000 761.00000 62.7%
73
              4 761.00000
                                1 46 2041.00000 761.00000 62.7% 148 25s
         1
              20 761.00000 4 199 2041.00000 761.00000 62.7% 1233 31s
74
        15
75
        37
              44 761.00000 7 104 2041.00000 761.00000 62.7% 880 35s
76
     H 45
              44
                                  1261.0000000 761.00000 39.7% 1101 35s
                                  1221.0000000 761.00000 37.7% 1352 40s
    H 63
               77
77
                                   1021.0000000 761.00000 25.5% 771 48s
78 H 210 183
       317 211 941.00000 58 151 1021.00000 761.00000 25.5% 658
79
```

```
80 H 345 211
                          941.0000000 761.00000 19.1% 613 52s
     398 242 761.00000 21 62 941.00000 761.00000 19.1% 674 57s
     479 256 761.00000 43 218 941.00000 761.00000 19.1% 656 62s
83 H 603 256
                          761.0000000 761.00000 0.00% 623 62s
85 Cutting planes:
86
     Gomory: 2
87
     Cover: 120
88
     Implied bound: 3989
89
     Clique: 2
90
     MIR: 71
91
     StrongCG: 42
 92
     GUB cover: 11
93
     Zero half: 1
94
     RLT: 9
95
     Relax-and-lift: 3
96
     BQP: 7
97
98 Explored 639 nodes (419113 simplex iterations) in 62.99 seconds (100.96 work units)
    Thread count was 8 (of 8 available processors)
100
101 Solution count 9: 761 941 1021 ... 2461
102
103 Optimal solution found (tolerance 1.00e-10)
104 Best objective 7.610000000000e+02, best bound 7.61000000000e+02, gap 0.0000%
105 Set parameter MIPGap to value 1e-08
106 Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
107
108 CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
109 Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
110
111 Optimize a model with 1540790 rows, 1208299 columns and 10558582 nonzeros
112 Model fingerprint: 0xf0ce5eec
113 Variable types: 592971 continuous, 615328 integer (610603 binary)
114 Coefficient statistics:
     Matrix range [1e-01, 1e+10]
115
116
     Objective range [6e-05, 5e+01]
117
     Bounds range [1e+00, 8e+01]
     RHS range
                  [8e-01, 1e+10]
118
119 Warning: Model contains large matrix coefficients
120 Warning: Model contains large rhs
121
         Consider reformulating model or setting NumericFocus parameter
122
         to avoid numerical issues.
123 Presolve removed 1536912 rows and 1207019 columns
124 Presolve time: 3.09s
125 Presolved: 3878 rows, 1280 columns, 10558 nonzeros
126 Variable types: 3 continuous, 1277 integer (755 binary)
127
128 Root relaxation: objective 5.038445e+03, 1650 iterations, 0.03 seconds (0.05 work units)
129
130
      Nodes | Current Node | Objective Bounds
    Expl Unexpl | Obj Depth IntInf | Incumbent BestBd Gap | It/Node Time
131
132
                                   - 5038.44514
          0 5038.44514 0 280
133
134 H 0 0
                       3057.0006962 5038.44514 64.8% - 3s
                       4731.0006962 5038.44514 6.50%
135 H 0 0
                                                       - 4s
                       4863.0006962 5038.44514 3.61%
136 H 0 0
                       4889.0006962 5038.44514 3.06%
137 H 0 0
138
       0 \quad 0 \; 4996.23141 \quad 0 \; 379 \; 4889.00070 \; 4996.23141 \; \; 2.19\%
139
       0 0 4996.21675 0 376 4889.00070 4996.21675 2.19%
       0 0 4996.21675 0 364 4889.00070 4996.21675 2.19% - 4s
140
141 H 0 0
                      4918.0006962 4996.21675 1.59%
       0 0 4996.21675 0 362 4918.00070 4996.21675 1.59% - 4s
142
143
       0
          0 4992.22064 0 292 4918.00070 4992.22064 1.51%
                                                           - 4s
       0 \quad 0 \ 4992.22064 \quad 0 \ 288 \ 4918.00070 \ 4992.22064 \ 1.51\% \quad - \quad 4s
144
145 H 0 0
                      4945.0006962 4988.00785 0.87%
146
      0 0 4988.00785 0 292 4945.00070 4988.00785 0.87% - 4s
147 H 0 0
                      4953.0006962 4986.68903 0.68% - 4s
148 H 0 0
                       4958.0006962 4986.68903 0.58%
          149
          0 4980.66745 0 323 4958.00070 4980.66745 0.46% - 4s
150
       0
151
       0
          0.4980.66745 0.319.4958.00070.4980.66745 0.46% - 4s
152
       0
          0.4980.66745 \quad 0.3134958.000704980.667450.46\%
          153
       0
154 H 0 0
                       4967 0006962 4976 00070 0 18%
                                                      - 4s
155 H 0
           0
                       4972.0006962 4976.00070 0.08%
156
157 Cutting planes:
158
     Learned: 4
159
     Gomory: 5
160
     Cover: 76
     Implied bound: 97
161
162
     Clique: 49
     MIR: 19
163
```

```
164
      StrongCG: 2
165
      Flow cover: 23
      GUB cover: 4
166
167
      Zero half: 11
      RLT: 39
169
      Relax-and-lift: 4
170
      PSD: 15
171
172 Explored 1 nodes (3200 simplex iterations) in 4.58 seconds (4.76 work units)
173 Thread count was 8 (of 8 available processors)
174
175 Solution count 10: 4972 4967 4958 ... 3057
176
177 Optimal solution found (tolerance 1.00e-08)
178 Best objective 4.972000696225e+03, best bound 4.972000696225e+03, gap 0.0000%
179 SP is solved
180 SP's optimal solution is'□4972
181
182
     Itr = 0
183 Collect LB = [761.0]
184 Collect_UB = [10705.001392450093]
185 Collect_Hua = [0.0]
186 Collect_SPObjVal = [4972.000696225046]
187 Collect MPObjValNHua = [761.0]
188
189
190 Set parameter TimeLimit to value 10800
191
    Set parameter MIPGap to value 0.05
    Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
192
193
194 CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
195 Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
196
197
     Optimize a model with 825052 rows, 195945 columns and 2412517 nonzeros
198 Model fingerprint: 0x7282e999
199 Variable types: 1 continuous, 195944 integer (187075 binary)
200 Coefficient statistics:
     Matrix range [1e-01, 1e+10]
201
202
     Objective range [1e+00, 2e+01]
203
      Bounds range [1e+00, 1e+00]
204
                    [1e+00, 2e+10]
     RHS range
205
     Warning: Model contains large matrix coefficients
206 Warning: Model contains large rhs
207
          Consider reformulating model or setting NumericFocus parameter
208
          to avoid numerical issues.
209 Presolve removed 634634 rows and 174373 columns (presolve time = 5s) ...
210 Presolve removed 634634 rows and 174373 columns (presolve time = 10s) ...
211 Presolve removed 757662 rows and 183924 columns
212 Presolve time: 12.48s
213 Presolved: 67390 rows, 12021 columns, 251009 nonzeros
214 Variable types: 1 continuous, 12020 integer (9916 binary)
215
216 Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
217 Showing first log only..
218
219 Root relaxation presolved: 12021 rows, 79411 columns, 263030 nonzeros
220
221
222 Root simplex log...
223
224 Iteration Objective
                           Primal Inf. Dual Inf.
         0 5.7330007e+03 0.000000e+00 3.201653e+04
225
                                                           13s
226
    Concurrent spin time: 0.42s
227
228 Solved with dual simplex (primal model)
229
230 Root relaxation: objective 5.733001e+03, 6205 iterations, 1.58 seconds (1.86 work units)
231 Total elapsed time = 15.69s
232
233
       Nodes | Current Node |
                                   Objective Bounds
234
     Expl Unexpl | Obj Depth IntInf | Incumbent BestBd Gap | It/Node Time
235
236
           0 5733.00070 0 276
                                      - 5733.00070
237
           0 5733.00070 0 679
                                     - 5733.00070
                                                           22s
238
           0.5733.00070 0.750
                                     - 5733 00070
                                                           238
       0
239
       0
           0 5733.00070 0 731
                                     - 5733.00070
                                                           24s
240
           0 5733.00070 0 570
                                      - 5733.00070
241
       0
           0 5733.00070 0 569
                                     - 5733.00070
                                                           25s
                                                        - 44s
242
           0 5733.00070 0 275
                                     - 5733.00070
       0
243
           0 5733.00070 0 399
                                      - 5733.00070
                                                           47s
           0 5733.00070
244
        0
                          0 398
                                      - 5733.00070
                                                           48s
           0 5733.00070 0 363
                                                        - 62s
245
       0
                                     - 5733.00070
           0 5733.00070 0 362
246
       0
                                     - 5733.00070
                                                        - 62s
247
       0
           0 5733.00070
                          0 387
                                      - 5733.00070
                                                           63s
```

```
248
           0 5733.00070 0 342
                                    - 5733.00070
                                                         80s
249
           0.5733.00070 - 0.297
                                    - 5733,00070
                                                      - 81s
250
           0.5733.00070 0.645
                                    - 5733.00070
                                                      - 84s
251
       0
           0 5733.00070 0 644
                                    - 5733.00070
                                                      - 84s
252
           0.5733.00070 \quad 0.252
                                    - 5733.00070
253 H 0 0
                        6413.0006962 5733.00070 10.6% - 105s
       0 0 5733.00070 0 252 6413.00070 5733.00070 10.6%
254
255
           2\ 5733.00070\quad 0\ 252\ 6413.00070\ 5733.00070\ 10.6\%
256
       11
           16 5733.00070 3 561 6413.00070 5733.00070 10.6% 3261 117s
257
           32 5733.00070 6 584 6413.00070 5733.00070 10.6% 2158 123s
       27
258
           52 5733.00070 9 592 6413.00070 5733.00070 10.6% 1469 126s
       44
259
      81 104 5733.00070 13 234 6413.00070 5733.00070 10.6% 1081 130s
260 H 169 178
                         6373.0006962 5733.00070 10.0% 565 135s
      273 \ \ 288\ 5733.00070 \ \ 28\ \ 629\ 6373.00070\ \ 5733.00070\ \ 10.0\% \ \ 375\ \ 141s
261
262
      352 369 5733.00070 35 326 6373.00070 5733.00070 10.0% 330 145s
      452 454 5733.00070 48 365 6373.00070 5733.00070 10.0% 276 152s
263
      507 507 5733.00070 56 472 6373.00070 5733.00070 10.0% 264 155s
264
      567 574 5733.00070 60 446 6373.00070 5733.00070 10.0% 265 160s
265
266 H 589 422
                         6093.0006962 5733.00070 5.91% 264 160s
267
      651 462 5733.00070 69 485 6093.00070 5733.00070 5.91% 243 165s
268 H 664 335
                          6013.0006962 5733.00070 4.66% 241 165s
269
270 Cutting planes:
271
     Learned: 30
272
     Gomory: 1
273
     Cover: 381
     Implied bound: 134
274
     Clique: 129
275
276
     MIR: 117
277
      StrongCG: 34
278
     Flow cover: 1
279
     GUB cover: 62
280
     Zero half: 27
      RLT: 67
282
     Relax-and-lift: 232
283
     BOP: 31
284
285 Explored 737 nodes (356468 simplex iterations) in 165.72 seconds (335.77 work units)
286 Thread count was 8 (of 8 available processors)
287
288 Solution count 4: 6013 6093 6373 6413
289
290 Optimal solution found (tolerance 5.00e-02)
291 Best objective 6.013000696225e+03, best bound 5.733000696225e+03, gap 4.6566%
292
    Set parameter MIPGap to value 1e-08
293 Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
294
295 CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
296 Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
297
298 Optimize a model with 1540790 rows, 1208299 columns and 10558582 nonzeros
299 Model fingerprint: 0x5d8229c1
300 Variable types: 592971 continuous, 615328 integer (610603 binary)
301 Coefficient statistics:
302
     Matrix range [1e-01, 1e+10]
303
     Objective range [6e-05, 5e+01]
     Bounds range [1e+00, 8e+01]
304
                   [8e-01, 1e+10]
305
     RHS range
306
     Warning: Model contains large matrix coefficients
    Warning: Model contains large rhs
307
308
          Consider reformulating model or setting NumericFocus parameter
309
         to avoid numerical issues.
310 Presolve removed 1536208 rows and 1206829 columns
311 Presolve time: 3.09s
312 Presolved: 4582 rows, 1470 columns, 12220 nonzeros
313 Variable types: 3 continuous, 1467 integer (858 binary)
314 Found heuristic solution: objective 3905.0006962
315
316 Root relaxation: objective 5.883334e+03, 1466 iterations, 0.02 seconds (0.04 work units)
317
      Nodes | Current Node | Objective Bounds
318
319
     Expl Unexpl | Obj Depth IntInf | Incumbent BestBd Gap | It/Node Time
320
          321
                        5852.0006962 5883.33403 0.54% - 3s
322 H 0 0
323
       0 0
                     0 5879.0006962 5879.00070 0.00%
324
325 Cutting planes:
326
     Learned: 2
327
     Gomory: 1
328
      Cover: 7
     Implied bound: 8
329
330
     Flow cover: 2
     Mod-K: 1
331
```

```
332
         RLT: 16
333
         PSD: 6
334
335 Explored 1 nodes (2134 simplex iterations) in 4.18 seconds (4.39 work units)
336 Thread count was 8 (of 8 available processors)
337
338 Solution count 3: 5879 5852 3905
339
340 Optimal solution found (tolerance 1.00e-08)
341 Best objective 5.879000696225e+03, best bound 5.879000696225e+03, gap 0.0000%
342 SP is solved
343 SP's optimal solution is' ☐ 5879
344
345
        Itr = 1
346 Collect_LB = [761.0, 6013.000696225046]
347 Collect UB = [10705.001392450093, 6920.0006962250445]
348 Collect Hua = [0.0, 4972.000696225046]
349 Collect_SPObjVal = [4972.000696225046, 5879.0006962250445]
350 Collect MPObjValNHua = [761.0, 1041.0]
351 Time: 436.000000
352
353
354
355
356
357
        Set parameter TimeLimit to value 10800
358 Set parameter MIPGap to value 0.05
359 Gurobi Optimizer version 10.0.2 build v10.0.2rc0 (win64)
360
361 CPU model: 11th Gen Intel(R) Core(TM) i7-11370H @ 3.30GHz, instruction set [SSE2|AVX|AVX2|AVX512]
362 Thread count: 4 physical cores, 8 logical processors, using up to 8 threads
363
364 Optimize a model with 1160565 rows, 211254 columns and 3488494 nonzeros
365 Model fingerprint: 0x852d1688
366 Variable types: 1 continuous, 211253 integer (193543 binary)
367 Coefficient statistics:
368
         Matrix range [1e-01, 1e+10]
369
         Objective range [1e+00, 2e+01]
370
         Bounds range [1e+00, 1e+00]
371
         RHS range
                                [1e+00, 2e+10]
372 Warning: Model contains large matrix coefficients
373 Warning: Model contains large rhs
374
                Consider reformulating model or setting NumericFocus parameter
375
                to avoid numerical issues.
376 Presolve removed 982812 rows and 189107 columns (presolve time = 5s) ...
377 Presolve removed 1001249 rows and 190590 columns (presolve time = 10s) ...
378 Presolve removed 1067235 rows and 197108 columns
379 Presolve time: 13.56s
380 Presolved: 93330 rows, 14146 columns, 303474 nonzeros
381
       Variable types: 1 continuous, 14145 integer (10645 binary)
382
383 Deterministic concurrent LP optimizer: primal and dual simplex (primal and dual model)
384 Showing first log only...
385
386 Root relaxation presolved: 14146 rows, 107476 columns, 317620 nonzeros
387
388
389 Root simplex log...
390
391 Iteration Objective
                                            Primal Inf. Dual Inf.
              0 7.2200007e+03 0.000000e+00 6.064730e+04
392
                                                                                              149
393 Concurrent spin time: 0.01s
394
395 Solved with dual simplex (primal model)
396
397
       Root relaxation: infeasible, 0 iterations, 0.32 seconds (0.26 work units)
398
399 Explored 1 nodes (0 simplex iterations) in 14.50 seconds (26.60 work units)
400 Thread count was 8 (of 8 available processors)
401
402 Solution count 0
403
404 Model is infeasible
405 Best objective -, best bound -, gap -
406 Traceback (most recent call last):
         File "<input>", line 1, in <module>
407
408
         File "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\_pydev\_pudev_bundle\pydev_umd.py", line 198, in runfile
409
           pydev_imports.execfile(filename, global_vars, local_vars) # execute the script
410
         File "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev_imps\_pydev_execfile.py", line 18, in execfile
           exec(compile(contents+"\n", file, 'exec'), glob, loc)
411
         File "E:/1 | 0 | 0/3 | 0 | 0 | 0/1 | 0 | 0 | 0 | 0/1 | 0 | 0 | 0/2 | 0/2 | 0/3 | 0/4 | 0 | 0/3 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 | 0/4 |
412
        main RO CCG.py", line 1363, in <module>
413
           HuaValG = Hua.x
          File "src\gurobipy\var.pxi", line 125, in gurobipy.Var.__getattr
414
```

4	15 File "sre\gurobipy\var.pxi", line 153, in gurobipy.Var.getAttr
4	File "src\gurobipy\var.pxi", line 153, in gurobipy.Var.getAttr File "src\gurobipy\attrutil.pxi", line 100, in gurobipygetattr AttributeError: Unable to retrieve attribute 'x' 18
4	18
1	