```
unknown
     D:\Python\Python\setroute\python.exe "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --
       mode=client --port=6507
  2
 3
      import sys; print('Python %s on %s' % (sys.version, sys.platform))
      6
      PyDev console: starting.
 8 Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
      main_ECCG_deterministic.py', wdir='E:/1 0000/3 00000/1 0000000/1 0000000/1 000000/1 LW_00001/4 0000/3 python_code/
10 Backend TkAgg is interactive backend. Turning interactive mode on.
11
       Waiting 5s.....
      Optimize the ./R 5 6.xlsx instance by ECCG for deterministic model
13
14
15
      Set parameter MIPGap to value 0.01
16
               Master protblem status = 2, is Optimal and MP obj = 307.0
                                              ub = inf
      The initial lb = -inf
17
18
19
       The current iteration cnt = 0
20
               The SP model was solved Optimal 2 and SPObj = 307.0
               Deterministic Sub problem Status= 2, is Optimal
21
22
               Master protblem status = 2, is Optimal
                                                      ub = 556.0
               MPObj = 556.0
                                             MP_delete_Hua_Obj = 307.0
24
                                                                                                      Hua = 249.0
                                                                                                                                  SPObi = 307.0
                                                                                                                                                              MP SP Obj = 249.0
                                                                                                                                                                                                             Deter SP Obj = 249.0
25
26
      ub - 1b = 0.0
27
28 Iteration cycle stopped by termination criterion 1: Because ub - lb \leq eps, the iteration stop, and cnt = 0
29
           i: 0.0 1_i: 7.0 p_i: 0.0 aI_i: 30.0
                                                                             sol_a_i: 30.0 sol_g_i: 0.0 d_i: 56.0 sol_taoi: 30.0
                                                                                                                                                                             sol_deltai: 54.0 sol_deltai - sol_taoi: 24.0 sol_taoP:
                  sol deltaP: 42.0
                                                  sol_deltaP - sol_taoP: 12.0 cI_i: 6236568.0 sol_c_i: 6236568.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 0.
       34473760070397963
           i: 1.0 l_i: 5.0 p_i: 7.0 al_i: 37.0 sol_a_i: 37.0 sol_g_i: 0.0 d_i: 63.0 sol_taoi: 37.0 sol_deltai: 61.0 sol_deltai - sol_taoi: 24.0 sol_taoi: 24.0 sol_deltai - sol_taoi: 24.0 sol_taoi: 37.0 sol_deltai - sol_taoi: 24.0 sol_taoi: 24.0 sol_taoi: 6271478.0 sol_c_i: 6271478.0 sol_taoi: 6271478.0 sol_taoi: 6271478.0 sol_taoi: 6459278.0 wasted work: 6459278.0 wasted work: 0.
30
       7123241947474624
         i: 2.0 l_i: 4.0 p_i: 12.0 al_i: 40.0 sol_a_i: 40.0 sol_g_i: 0.0 d_i: 52.0 sol_taoi: 40.0 sol_deltai: 50.0 so
                                                                                  sol_a_i: 40.0 sol_g_i: 0.0 d_i: 52.0 sol_taoi: 40.0 sol_deltai: 50.0 sol_deltai - sol_taoi: 10.0 sol_taoP
       6455295777639545
         i: 3.0 l_i: 4.0 p_i: 16.0 al_i: 56.0 sol_a_i: 56.0 sol_g_i: 0.0 d_i: 79.0 sol_taoi: 56.0 sol_deltai: 74.0 sol_deltai - sol_taoi: 18.0 sol_taoi: 56.0 sol_deltaP - sol_taoP: 3.0 cl_i: 4513516.0 sol_c_i: 4513516.0 sol_gp_i: 0.0 total work: 4745592.0 wasted work: 0.
                                                                                sol a i: 56.0 sol g i: 0.0 d i: 79.0 sol taoi: 56.0 sol deltai: 74.0 sol deltai - sol taoi: 18.0 sol taoP
       8802627785953786
      i: 4.0 1_i: 4.0 p_i: 0.0 al_i: 60.0 sol_a_i: 60.0 sol_g_i: 0.0 d_i: 70.0 sol_taoi: 60.0 sol_deltai: 68.0 sol_deltai - sol_taoi: 8.0 sol_60.0 sol_deltaP - sol_taoP: 2.0 cl_i: 2082547.0 sol_c_i: 2082547.0 sol_gp_i: 0.0 total work: 2109152.0 wasted work: 0.
                                                                             sol a i: 60.0 sol g i: 0.0 d i: 70.0 sol taoi: 60.0 sol deltai: 68.0 sol deltai - sol taoi: 8.0 sol taoP:
       10091259425589053
      Time: 16.000000
35
36
37
38
```