```
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=6578
   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 7.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 = 273.0
        The initial lb = -inf
                                                           ub = inf
17
18
19
         The current iteration cnt = 0
20
                    The SP model was solved Optimal 2 and SPObj = 273.0
                   Deterministic Sub problem Status= 2, is Optimal
21
22
                   Master protblem status = 2, is Optimal
                                                                     ub = 474.0
                    MPObj = 474.0
                                                          MP_delete_Hua_Obj = 273.0
24
                                                                                                                                   Hua = 201.0
                                                                                                                                                                       SPObi = 273.0
                                                                                                                                                                                                           MP SP Obj = 201.0
                                                                                                                                                                                                                                                                       Deter SP Obj = 201.0
25
26
        ub - 1b = 0.0
27
28 Iteration cycle stopped by termination criterion 1: Because ub - lb \le eps, the iteration stop, and cnt = 0
29
               i: 0.0 1_i: 5.0 p_i: 29.0 aI_i: 17.0
                                                                                                          sol\_a\_i: 17.0 \quad sol\_g\_i: 0.0 \quad d\_i: 39.0 \quad sol\_taoi: 17.0 \quad sol\_deltai: 37.0 \quad sol\_deltai - sol\_taoi: 20.0 \quad sol\_taoP
             17.0 sol_deltaP: 23.0 sol_deltaP - sol_taoP: 6.0 cl_i: 5186037.0 sol_c_i: 5186037.0 sol_gp_i: 0.0 total work: 5536524.0 wasted work: 1.
         3293949416637587
                                                                                                      sol_a_i: 43.0 sol_g_i: 0.0 d_i: 72.0 sol_taoi: 43.0 sol_deltai: 70.0 sol_deltai - sol_taoi: 27.0 sol_taoP
30
              i: 1.0 1_i: 5.0 p_i: 24.0 aI_i: 43.0
         : 43.0 sol_deltaP: 49.0 sol_deltaP - sol_taoP: 6.0 cl_i: 7000335.0 sol_c_i: 7000335.0 sol_gp_i: 0.0 total work: 7909320.0 wasted work: 3.
         4477742713659327
                                                                                                         sol_a_i: 58.0 sol_g_i: 0.0 d_i: 80.0 sol_taoi: 58.0 sol_deltai: 78.0 sol_deltai - sol_taoi: 20.0 sol_taoP
              i: 2.0 1_i: 4.0 p_i: 12.0 aI_i: 58.0
            58.0 sol_deltaP: 62.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5011582.0 sol_c_i: 5011582.0 sol_gp_i: 0.0 total work: 6195634.0 wasted work: 4.
         49110163705603
             i: 3.0 l_i: 7.0 p_i: 5.0 al_i: 26.0 sol_a_i: 26.0 sol_g_i: 0.0 d_i: 58.0 sol_taoi: 26.0 sol_deltai: 54.0 sol_deltai - sol_taoi: 28.0 sol_taoi: 26.0 sol_deltai - sol_taoi: 28.0 sol_taoi: 28.0 sol_deltai - sol_taoi: 28.0 sol_taoi: 28
32
         1971560134120254
        i: 4.0 1_i: 5.0 p_i: 0.0 al_i: 24.0 sol_a_i: 24.0 sol_g_i: 0.0 d_i: 41.0 sol_taoi: 24.0 sol_deltai: 34.0 sol
                                                                                                   sol a i: 24.0 sol g i: 0.0 d i: 41.0 sol taoi: 24.0 sol deltai: 34.0 sol deltai - sol taoi: 10.0 sol taoP:
         6783655232055348
        Time: 21.000000
35
36
37
38
```