```
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=46128
 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 8 7.xlsx instance by ECCG for deterministic model
13
14
15
     Set parameter MIPGap to value 0.01
            Master protblem status = 2, is Optimal and MP obj = 378.0
16
     The initial lb = -inf
                                      ub = inf
17
18
19
     The current iteration cnt = 0
20
            The SP model was solved Optimal 2 and SPObj = 378.0
            Deterministic Sub problem Status= 2, is Optimal
21
22
            Master protblem status = 2, is Optimal
            1b = 649.0
                                             ub = 649.0
             MPObj = 649.0
                                     MP_delete_Hua_Obj = 378.0
24
                                                                                     Hua = 271.0
                                                                                                            SPObi = 378.0
                                                                                                                                    MP SP Obj = 271.0
                                                                                                                                                                           Deter SP Obj = 271.0
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: 6.0 p_i: 12.0 aI_i: 24.0
                                                                    sol_a_i: 24.0 sol_g_i: 0.0 d_i: 42.0 sol_taoi: 24.0 sol_deltai: 42.0 sol_deltai - sol_taoi: 18.0 sol_taoP
        24.0 sol_deltaP: 31.0 sol_deltaP - sol_taoP: 7.0 cl_i: 4508441.0 sol_c_i: 4508441.0 sol_gp_i: 0.0 total work: 4613770.0 wasted work: 0.
     399512221025322
         i: 1.0 1_i: 5.0 p_i: 6.0 aI_i: 36.0
30
                                                               sol_a_i: 36.0 sol_g_i: 0.0 d_i: 55.0 sol_taoi: 36.0 sol_deltai: 55.0 sol_deltai - sol_taoi: 19.0 sol_taoP:
               sol deltaP: 43.0
                                          sol deltaP - sol taoP: 7.0 cI i: 4907076.0
                                                                                                         sol_c_i: 4907076.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 0.
     3874922243631564
         i: 2.0 l_i: 6.0 p_i: 0.0 aI_i: 47.0
                                                                  sol_a_i: 47.0 sol_g_i: 0.0 d_i: 73.0 sol_taoi: 47.0 sol_deltai: 73.0 sol_deltai - sol_taoi: 26.0 sol_taoP:
31
      47.0 sol_deltaP: 54.0 sol_deltaP - sol_taoP: 7.0 cl_i: 6632534.0
                                                                                                         sol_c_i: 6632534.0 sol_gp_i: 0.0 total work: 7382032.0 wasted work: 2.
      842841103912852
     i: 3.0 l_i: 6.0 p_i: 6.0 al_i: 14.0 sol_a_i: 14.0 sol_g_i: 0.0 14.0 sol_deltaP: 22.0 sol_deltaP - sol_taoP: 8.0 cl_i: 4878594.0
32
                                                                 sol a i: 14.0 sol g i: 0.0 d i: 33.0 sol taoi: 14.0 sol deltai: 33.0 sol deltai - sol taoi: 19.0 sol taoP:
                                                                                                         sol_c_i: 4878594.0 sol_gp_i: 0.0 total work: 5141058.0 wasted work: 0.
     9955242675729392
       i: 4.0\ 1_{\text{i}}: 5.0\ p_{\text{i}}: 18.0\ aI_{\text{i}}: 21.0\ sol_a_{\text{i}}: 21.0\ sol_g_{\text{i}}: 0.0\ d_{\text{i}}: 31.0\ sol_{\text{taoi}}: 21.0\ sol_{\text{deltai}}: 31.0\ sol_{\text{deltai}}: 31.0
                                                                    sol a i: 21.0 sol g i: 0.0 d i: 31.0 sol taoi: 21.0 sol deltai: 31.0 sol deltai - sol taoi: 10.0 sol taoP
     8524904795861086
         i: 5.0 1_i: 6.0 p_i: 0.0 al_i: 14.0 sol_a_i: 14.0 sol_g_i: 0.0 d_i: 44.0 sol_taoi: 14.0 sol_deltai: 39.0 sol_deltai - sol_taoi: 25.0 sol_col_taoi: 25.0 sol_deltap - sol_taop: 9.0 cl_i: 6437196.0 sol_c_i: 6437196.0 sol_gp_i: 0.0 total work: 6591100.0 wasted work: 0.
                                                                 sol_a_i: 14.0 sol_g_i: 0.0 d_i: 44.0 sol_taoi: 14.0 sol_deltai: 39.0 sol_deltai - sol_taoi: 25.0 sol_taoP:
     5837568842833518
         i: 6.0 1 i: 6.0 p i: 23.0 aI i: 25.0
                                                                     sol a i: 25.0 sol g i: 0.0 d i: 53.0 sol taoi: 25.0 sol deltai: 51.0 sol deltai - sol taoi: 26.0 sol taoP
      : 25.0 sol_deltaP: 33.0 sol_deltaP - sol_taoP: 8.0 cl_i: 6773675.0 sol_c_i: 6773675.0 sol_gp_i: 0.0 total work: 7118388.0 wasted work: 1.
     3074941967198193
         i: 7.0 1_i: 4.0 p_i: 18.0 aI_i: 37.0
                                                                     sol_a_i: 37.0 sol_g_i: 0.0 d_i: 55.0 sol_taoi: 37.0 sol_deltai: 54.0 sol_deltai - sol_taoi: 17.0 sol_taoP
36
      : 37.0 sol_deltaP: 42.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4218567.0 sol_c_i: 4218567.0 sol_gp_i: 0.0 total work: 4481948.0 wasted work: 0.
      999002442687867
    Time: 69.000000
38
39
40
41
```