```
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=5690
  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 6 6.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 = 347.0
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 = 347.0
                  Deterministic Sub problem Status= 2, is Optimal
21
22
                  Master protblem status = 2, is Optimal
                  1b = 640.0
                                                                   ub = 640.0
                   MPObj = 640.0
                                                       MP_delete_Hua_Obj = 347.0
24
                                                                                                                              Hua = 293.0
                                                                                                                                                                SPObi = 347.0
                                                                                                                                                                                                   MP SP Obj = 293.0
                                                                                                                                                                                                                                                              Deter SP Obj = 293.0
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: 28.0 aI_i: 45.0
                                                                                                      sol_a_i: 45.0 sol_g_i: 0.0 d_i: 54.0 sol_taoi: 45.0 sol_deltai: 54.0 sol_deltai - sol_taoi: 9.0 sol_taoP
            45.0 sol_deltaP: 50.0 sol_deltaP - sol_taoP: 5.0 cl_i: 2351588.0 sol_c_i: 2351588.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 1.
        0804418078924611
             i: 1.0 1_i: 7.0 p_i: 21.0 aI_i: 51.0
                                                                                                  sol_a_i: 51.0 sol_g_i: 0.0 d_i: 61.0 sol_taoi: 51.0 sol_deltai: 61.0 sol_deltai - sol_taoi: 10.0 sol_taoP
30
                                                                                                                                                          sol c i: 2568806.0 sol gp i: 0.0 total work: 3691016.0 wasted work: 4.
           51.0 sol deltaP: 53.0 sol deltaP - sol taoP: 2.0 cI i: 2568806.0
        256535327942225
           i: 2.0 l_i: 5.0 p_i: 16.0 al_i: 53.0 sol_a_i: 53.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 53.0 sol_deltai: 67.0 so
                                                                                                      sol_a_i: 53.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 53.0 sol_deltai: 67.0 sol_deltai - sol_taoi: 14.0 sol_taoP
         6608001699261123
             i: 3.0 l_i: 4.0 p_i: 5.0 al_i: 55.0 sol_a_i: 55.0 sol_g_i: 0.0 cl_o sol_deltaP: 71.0 sol_deltaP - sol_taoP: 16.0 cl_i: 3965516.0
32
                                                                                             sol_a_i: 55.0 sol_g_i: 0.0 d_i: 71.0 sol_taoi: 55.0 sol_deltai: 71.0 sol_deltai - sol_taoi: 16.0 sol_taoP:
                                                                                                                                                               sol_c_i: 3965516.0 sol_gp_i: 0.0 total work: 4218304.0 wasted work: 0.
        9588232616710413
           i: 4.0\ 1_{\text{i}}: 5.0\ p_{\text{i}}: 29.0\ al_{\text{i}}: 22.0\ sol_{\text{a}}: 22.0\ sol_{\text{g}}: 0.0\ d_{\text{i}}: 46.0\ sol_{\text{taoi}}: 22.0\ sol_{\text{deltai}}: 43.0\ so
                                                                                                     sol a i: 22.0 sol g i: 0.0 d i: 46.0 sol taoi: 22.0 sol deltai: 43.0 sol deltai - sol taoi: 21.0 sol taoP
         7747834200664533
              i: 5.0 1_i: 5.0 p_i: 0.0 aI_i: 28.0
                                                                                             sol_a_i: 28.0 sol_g_i: 0.0 d_i: 57.0 sol_taoi: 28.0 sol_deltai: 51.0 sol_deltai - sol_taoi: 23.0 sol_taoP:
                      sol_deltaP: 36.0 sol_deltaP - sol_taoP: 8.0 cl_i: 5807338.0 sol_c i: 5807338.0 sol_gp_i: 0.0 total work: 6063812.0 wasted work: 0.
         9728042360152327
       Time: 21.000000
37
38
39
```