```
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=40030
 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 9 9.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 = 481.0
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 = 481.0
           Deterministic Sub problem Status= 2, is Optimal
21
22
           Master protblem status = 2, is Optimal
                                           ub = 861.0
            MPObj = 861.0 MP_delete_Hua_Obj = 481.0
24
                                                                                Hua = 380.0
                                                                                                       SPObi = 481.0
                                                                                                                             MP SP Obj = 380.0
                                                                                                                                                                  Deter SP Obj = 380.0
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: 0.0 aI_i: 11.0
                                                             sol_a_i: 11.0 sol_g_i: 0.0 d_i: 32.0 sol_taoi: 11.0
                                                                                                                                        sol_deltai: 32.0 sol_deltai - sol_taoi: 21.0 sol_taoP:
               sol deltaP: 23.0
                                      21762300678187252
        i: 1.0 1_i: 7.0 p_i: 26.0 aI_i: 60.0
                                                              sol_a_i: 60.0 sol_g_i: 0.0 d_i: 82.0 sol_taoi: 60.0 sol_deltai: 82.0 sol_deltai - sol_taoi: 22.0 sol_taoP
30
                                                                                                   sol c i: 5618842.0 sol gp i: 0.0 total work: 6591100.0 wasted work: 3.
       60.0 sol deltaP: 65.0 sol deltaP - sol taoP: 5.0 cI i: 5618842.0
     6877683542959447
     i: 2.0 l_i: 7.0 p_i: 9.0 al_i: 30.0 sol_a_i: 30.0 sol_g_i: 0.0 d_i: 57.0 sol_taoi: 30.0 sol_deltai: 57.0 sol
                                                              sol_a_i: 30.0 sol_g_i: 0.0 d_i: 57.0 sol_taoi: 30.0 sol_deltai: 57.0 sol deltai - sol taoi: 27.0 sol taoP:
     17758416652759024
       i: 3.0 1_i: 5.0 p_i: 29.0 aI_i: 39.0 sol_a_i: 39.0 sol_g_i: 0.0 d_i: 49.0 sol_taoi: 39.0 sol_deltai: 49.0 sol_deltai - sol_taoi: 10.0 sol_deltaP: 42.0 sol_deltaP - sol_taoP: 2.0 cI_i: 2580613.0 sol_c_i: 2580613.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 0.
32
                                                                sol a i: 39.0 sol g i: 0.0 d i: 49.0 sol taoi: 39.0 sol deltai: 49.0 sol deltai - sol taoi: 10.0 sol taoP
     211751452716542
                                                                sol a i: 38.0 sol g i: 0.0 d i: 50.0 sol taoi: 38.0 sol deltai: 50.0 sol deltai - sol taoi: 12.0 sol taoP
        i: 4.0 1_i: 6.0 p_i: 23.0 al_i: 38.0
       38.0 sol_deltaP: 40.0 sol_deltaP - sol_taoP: 2.0 cl_i: 3046194.0 sol_c_i: 3046194.0 sol_gp_i: 0.0 total work: 3691016.0 wasted work: 2.
     4458057076967425
         i: 5.0 1_i: 7.0 p_i: 0.0 aI_i: 56.0
                                                           sol_a_i: 56.0 sol_g_i: 0.0 d_i: 83.0 sol_taoi: 56.0 sol_deltai: 81.0 sol_deltai - sol_taoi: 25.0 sol_taoP:
              sol deltaP: 65.0 sol deltaP - sol taoP: 9.0 cl i: 6585728.0 sol c i: 6585728.0 sol gp i: 0.0 total work: 6591100.0 wasted work: 0.
     020375961523873103
         i: 6.0 1_i: 4.0 p_i: 19.0 aI_i: 37.0
                                                                 sol a i: 37.0 sol g i: 0.0 d i: 53.0 sol taoi: 37.0 sol deltai: 45.0 sol deltai - sol taoi: 8.0 sol taoP
     : 37.0 sol_deltaP: 39.0
                                      sol_deltaP - sol_taoP: 2.0 cI_i: 1953475.0 sol_c_i: 1953475.0 sol_gp_i: 0.0 total work: 1977330.0 wasted work: 0.
     09048186190468965
         i: 7.0 1_i: 7.0 p_i: 16.0 aI_i: 50.0
                                                                 sol_a_i: 50.0 sol_g_i: 0.0 d_i: 69.0 sol_taoi: 50.0 sol_deltai: 66.0 sol_deltai - sol_taoi: 16.0 sol_taoP
     : 50.0 sol_deltaP: 55.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4218016.0 sol_c_i: 4218016.0 sol_gp_i: 0.0 total work: 4350126.0 wasted work: 0.
     5010923821516894
        i: 8.0 1 i: 6.0 p i: 5.0 aI i: 10.0
                                                              sol a i: 10.0 sol g i: 0.0 d i: 25.0 sol taoi: 10.0 sol deltai: 19.0 sol deltai - sol taoi: 9.0 sol taoP:
37
     10.0 sol_deltaP: 13.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2307577.0 sol_e_i: 2307577.0 sol_gp_i: 0.0 total work: 2372796.0 wasted work: 0.
     24737524844107964
    Time: 47.000000
39
40
41
42
```