```
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=7672
 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 7 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 = 359.0
16
                                       ub = inf
     The initial lb = -inf
17
18
19
     The current iteration cnt = 0
20
             The SP model was solved Optimal 2 and SPObj = 359.0
            Deterministic Sub problem Status= 2, is Optimal
21
22
            Master protblem status = 2, is Optimal
            1b = 617.0
                                              ub = 617.0
             MPObj = 617.0 MP_delete_Hua_Obj = 359.0
24
                                                                                       Hua = 258.0
                                                                                                               SPObi = 359.0
                                                                                                                                       MP SP Obj = 258.0
                                                                                                                                                                               Deter SP Obj = 258.0
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
                                                                     sol_a_i: 8.0 sol_g_i: 0.0 d_i: 30.0 sol_taoi: 8.0 sol_deltai: 30.0 sol_deltai - sol_taoi: 22.0 sol taoP: 8
29
         i: 0.0 1_i: 4.0 p_i: 24.0 aI_i: 8.0
                                      sol_deltaP - sol_taoP: 7.0 cl_i: 5762289.0 sol_c_i: 5762289.0 sol_gp_i: 0.0 total work: 6063812.0 wasted work: 1.
             sol deltaP: 15.0
     1436748039022318
         i: 1.0 1_i: 4.0 p_i: 24.0 aI_i: 62.0
                                                                   sol_a_i: 62.0 sol_g_i: 0.0 d_i: 74.0 sol_taoi: 62.0 sol_deltai: 74.0 sol_deltai - sol_taoi: 12.0 sol_taoP
30
        62.0 sol deltaP: 64.0 sol deltaP - sol taoP: 2.0 cI i: 3026175.0 sol c i: 3026175.0 sol gp i: 0.0 total work: 3163728.0 wasted work: 0.
      5217376462199026
        i: 2.0 l_i: 6.0 p_i: 28.0 al_i: 59.0 sol_a_i: 59.0 sol_g_i: 0.0 d_i: 74.0 sol_taoi: 59.0 sol_deltai: 74.0 so
                                                                      sol_a_i: 59.0 sol_g_i: 0.0 d_i: 74.0 sol_taoi: 59.0 sol_deltai: 74.0 sol_deltai - sol_taoi: 15.0 sol_taoP
      04881203441003778
        i: 3.0 l_i: 5.0 p_i: 19.0 al_i: 13.0 sol_a_i: 13.0 sol_g_i: 0.0 d_i: 38.0 sol_taoi: 13.0 sol_deltai: 38.0 sol_deltai sol_taoi: 25.0 sol_deltai sol_taoi: 25.0 sol_deltai sol_taoi: 19.0 sol_deltai sol_taoi: 6526466.0 sol_c_i: 6526466.0 sol_g_i: 0.0 total work: 6854744.0 wasted work: 1.
32
                                                                     sol a i: 13.0 sol g i: 0.0 d i: 38.0 sol taoi: 13.0 sol deltai: 38.0 sol deltai - sol taoi: 25.0 sol taoP
     2451563471954605
                                                                      sol a i: 11.0 sol g i: 0.0 d i: 35.0 sol taoi: 11.0 sol deltai: 34.0 sol deltai - sol taoi: 23.0 sol taoP
         i: 4.0 1_i: 6.0 p_i: 13.0 aI_i: 11.0
        11.0 sol_deltaP: 16.0 sol_deltaP - sol_taoP: 5.0 cI_i: 5908202.0 sol_c_i: 5908202.0 sol_gp_i: 0.0 total work: 5931990.0 wasted work: 0.
     09022773133467858\\
         i: 5.0 1_i: 4.0 p_i: 4.0 aI_i: 35.0
                                                                  sol_a_i: 35.0 sol_g_i: 0.0 d_i: 59.0 sol_taoi: 35.0 sol_deltai: 57.0 sol_deltai - sol_taoi: 22.0 sol_taoP:
               sol_deltaP: 43.0 sol_deltaP - sol_taoP: 8.0 cl_i: 5649360.0 sol_c_i: 5649360.0 sol_gp_i: 0.0 total work: 5800168.0 wasted work: 0.
     5720137761526908
                                                                   sol a i: 25.0 sol g i: 0.0 d i: 60.0 sol taoi: 25.0 sol deltai: 52.0 sol deltai - sol taoi: 27.0 sol taoP:
35
         i: 6.0 1 i: 4.0 p i: 0.0 aI i: 25.0
     25.0 sol_deltaP: 39.0 sol_deltaP - sol_taoP: 14.0 cl_i: 6896096.0 sol_c_i: 6896096.0 sol_gp_i: 0.0 total work: 7118388.0 wasted work: 0.
     8431521293865971
     Time: 45.000000
37
38
39
40
```