```
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=24778
  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 2.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 = 298.0
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 = 298.0
                 Deterministic Sub problem Status= 2, is Optimal
21
22
                 Master protblem status = 2, is Optimal
                                                              ub = 530.0
                 MPObj = 530.0 MP_delete_Hua_Obj = 298.0
24
                                                                                                                     Hua = 232.0
                                                                                                                                                     SPObi = 298.0
                                                                                                                                                                                         MP SP Obj = 232.0
                                                                                                                                                                                                                                            Deter SP Obj = 232.0
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: 55.0
                                                                                               sol_a_i: 55.0 sol_g_i: 0.0 d_i: 63.0 sol_taoi: 55.0 sol_deltai: 63.0 sol_deltai - sol_taoi: 8.0 sol_taoP
           55.0 sol_deltaP: 59.0 sol_deltaP - sol_taoP: 4.0 cl_i: 2094947.0 sol_c_i: 2094947.0 sol_gp_i: 0.0 total work: 2109152.0 wasted work: 0.
       05387947383593027
                                                                                           sol_a_i: 20.0 sol_g_i: 0.0 d_i: 28.0 sol_taoi: 20.0 sol_deltai: 28.0 sol_deltai - sol_taoi: 8.0 sol_taoP
30
             i: 1.0 1_i: 6.0 p_i: 28.0 aI_i: 20.0
                                                                                                                                               sol c i: 2103876.0 sol gp i: 0.0 total work: 2636440.0 wasted work: 2.
          20.0 sol deltaP: 22.0 sol deltaP - sol taoP: 2.0 cI i: 2103876.0
       0200118341399764
          i: 2.0 l_i: 6.0 p_i: 18.0 al_i: 23.0 sol_a_i: 23.0 sol_g_i: 0.0 d_i: 49.0 sol_taoi: 23.0 sol_deltai: 49.0 so
                                                                                               sol\_a\_i: \ 23.0 \quad sol\_g\_i: \ 0.0 \quad d\_i: \ 49.0 \quad sol\_taoi: \ 23.0 \quad sol\_deltai: \ 49.0 \quad sol\_deltai - sol\_taoi: \ 26.0 \quad sol\_taoP
        7077422585000986
          i: 3.0 l_i: 7.0 p_i: 11.0 al_i: 34.0 sol_a_i: 34.0 sol_g_i: 0.0 d_i: 42.0 sol_taoi: 34.0 sol_deltai: 42.0 sol_deltai: 42.0 sol_deltai: 42.0 sol_deltai: 8.0 sol_deltai: 35.0 sol
32
                                                                                             sol a i: 34.0 sol g i: 0.0 d i: 42.0 sol taoi: 34.0 sol deltai: 42.0 sol deltai - sol taoi: 8.0 sol taoP
        49391224530048095
                                                                                         sol a i: 24.0 sol g i: 0.0 d i: 42.0 sol taoi: 24.0 sol deltai: 39.0 sol deltai - sol taoi: 15.0 sol taoP:
            i: 4.0 1_i: 5.0 p_i: 6.0 aI_i: 24.0
       24.0 sol_deltaP: 32.0 sol_deltaP - sol_taoP: 8.0 cl_i: 3727432.0 sol_c_i: 3727432.0 sol_gp_i: 0.0 total work: 3954660.0 wasted work: 0.
       8618743457086071
             i: 5.0 1_i: 4.0 p_i: 0.0 aI_i: 1.0
                                                                                          sol_a_i: 1.0 sol_g_i: 0.0 d_i: 18.0 sol_taoi: 1.0 sol_deltai: 11.0 sol_deltai - sol_taoi: 10.0 sol_taoP: 1.0
             sol_deltaP: 5.0 sol_deltaP - sol_taoP: 4.0 cl_i: 2561723.0 sol_c_i: 2561723.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 0.
       28340110148533626
35
             i: 6.0 1 i: 6.0 p i: 0.0 aI i: 42.0
                                                                                          sol a i: 42.0 sol g i: 0.0 d i: 74.0 sol taoi: 42.0 sol deltai: 66.0 sol deltai - sol taoi: 24.0 sol taoP:
                    sol_deltaP: 48.0 sol_deltaP - sol_taoP: 6.0 cl_i: 6213536.0 sol_c_i: 6213536.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 0.
       4320978288904735
       Time: 28.000000
37
38
39
40
```