```
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=50366
  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 8.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 = 490.0
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 = 485.0
                Deterministic Sub problem Status= 2, is Optimal
21
22
                Master protblem status = 2, is Optimal
                1b = 876.0
                                                            ub = 876.0
                 MPObj = 876.0
                                                  MP_delete_Hua_Obj = 490.0
24
                                                                                                                  Hua = 386.0
                                                                                                                                                 SPObi = 485.0
                                                                                                                                                                                 MP SP Obj = 386.0
                                                                                                                                                                                                                                     Deter SP Obj = 386.0
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: 14.0 sol_g_i: 0.0 d_i: 34.0 sol_taoi: 14.0 sol_deltai: 34.0 sol_deltai - sol_taoi: 20.0 sol taoP:
29
             i: 0.0 1_i: 5.0 p_i: 0.0 aI_i: 14.0
                     sol_deltaP: 19.0 sol_deltaP - sol_taoP: 5.0 cI_i: 5152510.0 sol_c_i: 5152510.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
       45656263749601733
          i: 1.0 1_i: 7.0 p_i: 27.0 aI_i: 46.0 sol_a_i: 46.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 46.0 sol_deltai: 67.0 so
                                                                                        sol_a_i: 46.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 46.0 sol_deltai: 67.0 sol_deltai - sol_taoi: 21.0 sol_taoP
30
        1296179696863953
          i: 2.0 l_i: 6.0 p_i: 12.0 al_i: 44.0 sol_a_i: 44.0 sol_g_i: 0.0 d_i: 60.0 sol_taoi: 44.0 sol_deltai: 60.0 so
                                                                                            sol_a_i: 44.0 sol_g_i: 0.0 d_i: 60.0 sol_taoi: 44.0 sol_deltai: 60.0 sol_deltai - sol_taoi: 16.0 sol_taoP
        8298235499385535
            i: 3.0 l_i: 7.0 p_i: 5.0 al_i: 10.0 sol_a_i: 10.0 sol_g_i: 0.0 d_i: 21.0 sol_taoi: 10.0 sol_deltai: 21.0 sol_deltai: 21.0 sol_deltai: 21.0 sol_deltai: 3.0 sol_deltai: 21.0 sol_taoi: 11.0 sol_taoi: 11.0 sol_taoi: 11.0 sol_taoi: 11.0 sol_taoi: 2768262.0 wasted work: 0.
32
                                                                                    sol a i: 10.0 sol g i: 0.0 d i: 21.0 sol taoi: 10.0 sol deltai: 21.0 sol deltai - sol taoi: 11.0 sol taoP:
       42243707423647037
                                                                                           sol a i: 63.0 sol g i: 0.0 d i: 76.0 sol taoi: 63.0 sol deltai: 76.0 sol deltai - sol taoi: 13.0 sol taoP
            i: 4.0 1_i: 4.0 p_i: 17.0 al_i: 63.0
          63.0 sol_deltaP: 67.0 sol_deltaP - sol_taoP: 4.0 cl_i: 3320921.0 sol_c_i: 3320921.0 sol_gp_i: 0.0 total work: 3691016.0 wasted work: 1.
        403767959824612
             i: 5.0 1_i: 5.0 p_i: 12.0 aI_i: 65.0
                                                                                            sol_a_i: 65.0 sol_g_i: 0.0 d_i: 83.0 sol_taoi: 65.0 sol_deltai: 89.0 sol_deltai - sol_taoi: 24.0 sol_taoP
          65.0 sol_deltaP: 70.0 sol_deltaP - sol_taoP: 5.0 cl_i: 6243810.0 sol_c_i: 6243810.0 sol_gp_i: 0.0 total work: 6854744.0 wasted work: 2.
       31726874118129
                                                                                        sol a i: 45.0 sol g i: 0.0 d i: 76.0 sol taoi: 45.0 sol deltai: 72.0 sol deltai - sol taoi: 27.0 sol taoP:
            i: 6.0 1 i: 6.0 p i: 6.0 aI i: 45.0
       45.0 sol_deltaP: 54.0 sol_deltaP - sol_taoP: 9.0 cI_i: 6915563.0
                                                                                                                                             sol_c_i: 6915563.0 sol_gp_i: 0.0 total work: 7118388.0 wasted work: 0.
       7693139233208417
            i: 7.0 1_i: 6.0 p_i: 0.0 aI_i: 62.0
                                                                                        sol_a_i: 62.0 sol_g_i: 0.0 d_i: 75.0 sol_taoi: 62.0 sol_deltai: 71.0 sol_deltai - sol_taoi: 9.0 sol_taoP:
36
                     sol deltaP: 65.0 sol deltaP - sol taoP: 3.0 cI i: 2218324.0
                                                                                                                                             sol_c_i: 2218324.0 sol_gp_i: 0.0 total work: 2372796.0 wasted work: 0.
        5859113046380725
      Time: 42.000000
38
39
40
41
```