```
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=7307
  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 4.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 = 314.0
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 = 314.0
                  Deterministic Sub problem Status= 2, is Optimal
21
22
                  Master protblem status = 2, is Optimal
                  1b = 515.0
                                                                  ub = 515.0
                   MPObj = 515.0 MP_delete_Hua_Obj = 314.0
24
                                                                                                                            Hua = 201.0
                                                                                                                                                              SPObi = 314.0
                                                                                                                                                                                                MP SP Obj = 201.0
                                                                                                                                                                                                                                                          Deter SP Obj = 201.0
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: 7.0 p_i: 27.0 aI_i: 38.0
                                                                                                    sol\_a\_i: \ 38.0 \quad sol\_g\_i: \ 0.0 \quad d\_i: \ 58.0 \quad sol\_taoi: \ 38.0 \quad sol\_deltai: \ 58.0 \quad so
           38.0 sol_deltaP: 42.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5109254.0 sol_c_i: 5109254.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
        6206323678900335
                                                                                                   sol_a_i: 7.0 sol_g_i: 0.0 d_i: 31.0 sol_taoi: 7.0 sol_deltai: 31.0 sol_deltai - sol_taoi: 24.0 sol_taoP: 7
30
             i: 1.0 1_i: 4.0 p_i: 22.0 aI_i: 7.0
                  sol deltaP: 11.0
                                                        sol deltaP - sol taoP: 4.0 cI i: 6280473.0
                                                                                                                                                  sol c i: 6280473.0 sol gp i: 0.0 total work: 6327456.0 wasted work: 0.
        17820621747508003
           i: 2.0 l_i: 4.0 p_i: 18.0 al_i: 48.0 sol_a_i: 48.0 sol_a_i: 0.0 d_i: 69.0 sol_taoi: 48.0 sol_deltai: 69.0 so
                                                                                                     sol_a_i: 48.0 sol_g_i: 0.0 d_i: 69.0 sol_taoi: 48.0 sol_deltai: 69.0 sol_deltai - sol_taoi: 21.0 sol_taoP
        889354584212043
32
            i: 3.0 1_i: 7.0 p_i: 11.0 aI_i: 0.0
                                                                                                    sol_a_i: 0.0 sol_g_i: 0.0 d_i: 23.0 sol_taoi: 0.0 sol_deltai: 23.0 sol_deltai - sol_taoi: 23.0 sol_taoP: 0
                 sol_deltaP: 7.0 sol_deltaP - sol_taoP: 7.0 cl_i: 5897603.0 sol_c_i: 5897603.0 sol_gp_i: 0.0 total work: 5931990.0 wasted work: 0.
        13042967031299782
                                                                                              sol a i: 20.0 sol g i: 0.0 d i: 38.0 sol taoi: 20.0 sol deltai: 38.0 sol deltai - sol taoi: 18.0 sol taoP:
             i: 4.0 1_i: 5.0 p_i: 6.0 aI_i: 20.0
        20.0 sol_deltaP: 25.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4491204.0 sol_c_i: 4491204.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 1.
        964892051402649
              i: 5.0 1 i: 7.0 p i: 11.0 aI i: 40.0
                                                                                                    sol_a_i: 40.0 sol_g_i: 0.0 d_i: 61.0 sol_taoi: 40.0 sol_deltai: 60.0 sol_deltai - sol_taoi: 20.0 sol_taoP
           40.0 sol_deltaP: 44.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5209900.0 sol_c_i: 5209900.0 sol_gp_i: 0.0 total work: 5800168.0 wasted work: 2.
        238882735810411
                                                                                                sol a i: 13.0 sol g i: 0.0 d i: 42.0 sol taoi: 13.0 sol deltai: 35.0 sol deltai - sol taoi: 22.0 sol taoP:
              i: 6.0 1 i: 6.0 p i: 0.0 aI i: 13.0
                     sol_deltaP: 19.0 sol_deltaP - sol_taoP: 6.0 cl_i: 5768056.0 sol_c_i: 5768056.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 2.
        121800609913368
       Time: 53.000000
37
38
39
40
```