```
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=12413
 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 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 = 379.0
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 = 379.0
        Deterministic Sub problem Status= 2, is Optimal
21
22
        Master protblem status = 2, is Optimal
                              ub = 639.0
        MPObj = 639.0
                         MP_delete_Hua_Obj = 379.0
24
                                                         Hua = 260.0
                                                                        SPObi = 379.0
                                                                                        MP SP Obj = 260.0
                                                                                                                  Deter SP Obj = 260.0
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: 30.0
                                              sol\_a\_i: 30.0 \quad sol\_g\_i: 0.0 \quad d\_i: 56.0 \quad sol\_taoi: 30.0 \quad sol\_deltai: 56.0 \quad sol\_deltai - sol\_taoi: 26.0 \quad sol\_taoP
     30.0 sol_deltaP: 36.0 sol_deltaP - sol_taoP: 6.0 cl_i: 6796356.0 sol_c_i: 6796356.0 sol_gp_i: 0.0 total work: 7909320.0 wasted work: 4.
   221465309280696
      i: 1.0 1_i: 5.0 p_i: 23.0 aI_i: 57.0
                                             sol_a_i: 57.0 sol_g_i: 0.0 d_i: 80.0 sol_taoi: 57.0 sol_deltai: 80.0 sol_deltai - sol_taoi: 23.0 sol_taoP
30
                                                                     sol c i: 5812654.0 sol gp i: 0.0 total work: 7382032.0 wasted work: 5.
     57.0 sol deltaP: 61.0 sol deltaP - sol taoP: 4.0 cI i: 5812654.0
    952640682131966
                                            sol_a_i: 4.0 sol_g_i: 0.0 d_i: 27.0 sol_taoi: 4.0 sol_deltai: 27.0 sol_deltai - sol taoi: 23.0 sol taoP: 4.0
      i: \ 2.0 \ l\_i: \ 7.0 \ p\_i: \ 0.0 \ aI\_i: \ 4.0
      sol_deltaP: 10.0
                       sol_deltaP - sol_taoP: 6.0 cI_i: 5819032.0 sol_c_i: 5819032.0 sol_gp_i: 0.0 total work: 6063812.0 wasted work: 0.
    9284489690643444
     i: 3.0 l_i: 4.0 p_i: 18.0 al_i: 36.0 sol_a_i: 36.0 sol_g_i: 0.0 d_i: 57.0 sol_taoi: 36.0 sol_deltai: 57.0 sol_deltai: 57.0 sol_deltai: 57.0 sol_deltai - sol_taoi: 21.0 sol_deltaP - sol_taoP: 5.0 cl_i: 5350816.0 sol_c_i: 5350816.0 sol_gp_i: 0.0 total work: 6591100.0 wasted work: 4.
32
                                             sol a i: 36.0 sol g i: 0.0 d i: 57.0 sol taoi: 36.0 sol deltai: 57.0 sol deltai - sol taoi: 21.0 sol taoP
    704389252173385
                                             sol a i: 46.0 sol g i: 0.0 d i: 71.0 sol taoi: 46.0 sol deltai: 71.0 sol deltai - sol taoi: 25.0 sol taoP
      i: 4.0 1_i: 7.0 p_i: 11.0 al_i: 46.0
     46.0 sol_deltaP: 51.0 sol_deltaP - sol_taoP: 5.0 cl_i: 6491389.0 sol_c_i: 6491389.0 sol_gp_i: 0.0 total work: 6591100.0 wasted work: 0.
   3782031830802142
      i: 5.0 1_i: 4.0 p_i: 7.0 aI_i: 9.0
                                            sol_a_i: 9.0 sol_g_i: 0.0 d_i: 29.0 sol_taoi: 9.0 sol_deltai: 28.0 sol_deltai - sol_taoi: 19.0 sol_taoP: 9.0
      sol_deltaP: 16.0
                       sol_deltaP - sol_taoP: 7.0 cl_i: 4953037.0 sol_c_i: 4953037.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 0.
   2131624463291408
                                            sol a i: 40.0 sol g i: 0.0 d i: 62.0 sol taoi: 40.0 sol deltai: 60.0 sol deltai - sol taoi: 20.0 sol taoP:
      i: 6.0 1 i: 6.0 p i: 0.0 aI i: 40.0
   40.0 sol_deltaP: 45.0 sol_deltaP - sol_taoP: 5.0 cl_i: 5250250.0 sol_c_i: 5250250.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
   08583544476642746
   Time: 25.000000
37
38
39
40
```