```
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=40607
  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 3.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 = 511.0
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 = 504.0
                Deterministic Sub problem Status= 2, is Optimal
21
22
                Master protblem status = 2, is Optimal
                1b = 885.0
                                                           ub = 885.0
                 MPObj = 885.0
                                                 MP_delete_Hua_Obj = 511.0
24
                                                                                                                Hua = 374.0
                                                                                                                                               SPObi = 504.0
                                                                                                                                                                                 MP SP Obj = 374.0
                                                                                                                                                                                                                                  Deter SP Obj = 374.0
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: 5.0 p_i: 29.0 aI_i: 56.0
                                                                                           sol\_a\_i: 56.0 \quad sol\_g\_i: 0.0 \quad d\_i: 78.0 \quad sol\_taoi: 56.0 \quad sol\_deltai: 78.0 \quad sol\_deltai - sol\_taoi: 22.0 \quad sol\_taoP
          56.0 sol_deltaP: 61.0 sol_deltaP - sol_taoP: 5.0 cl_i: 5626540.0 sol_c_i: 5626540.0 sol_gp_i: 0.0 total work: 6591100.0 wasted work: 3.
       6585698896997467
                                                                                         sol_a_i: 62.0 sol_g_i: 0.0 d_i: 89.0 sol_taoi: 62.0 sol_deltai: 89.0 sol_deltai - sol_taoi: 27.0 sol_taoP
30
            i: 1.0 1_i: 5.0 p_i: 24.0 aI_i: 62.0
          62.0 sol deltaP: 68.0 sol deltaP - sol taoP: 6.0 cI i: 6928556.0
                                                                                                                                         sol c i: 6928556.0 sol gp i: 0.0 total work: 7909320.0 wasted work: 3.
        7200315577066045
          i: 2.0 l_i: 4.0 p_i: 20.0 al_i: 40.0 sol_a_i: 40.0 sol_g_i: 0.0 d_i: 58.0 sol_taoi: 40.0 sol_deltai: 58.0 so
                                                                                           sol_a_i: 40.0 sol_g_i: 0.0 d_i: 58.0 sol_taoi: 40.0 sol_deltai: 58.0 sol_deltai - sol_taoi: 18.0 sol_taoP
        34244663258029767
          i: 3.0 1_i: 4.0 p_i: 14.0 aI_i: 23.0 sol_a_i: 23.0 sol_g_i: 0.0 d_i: 47.0 sol_taoi: 23.0 sol_deltai: 47.0 sol_deltai - sol_taoi: 24.0 sol_delt
32
                                                                                          sol a i: 23.0 sol g i: 0.0 d i: 47.0 sol taoi: 23.0 sol deltai: 47.0 sol deltai - sol taoi: 24.0 sol taoP
        8576489508579751
                                                                                          sol a i: 37.0 sol g i: 0.0 d i: 57.0 sol taoi: 37.0 sol deltai: 57.0 sol deltai - sol taoi: 20.0 sol taoP
            i: 4.0 1_i: 4.0 p_i: 10.0 aI_i: 37.0
          37.0 sol_deltaP: 41.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5075529.0 sol_c_i: 5075529.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
        7485510764515786
            i: 5.0 1_i: 5.0 p_i: 5.0 aI_i: 62.0
                                                                                      sol_a_i: 62.0 sol_g_i: 0.0 d_i: 91.0 sol_taoi: 62.0 sol_deltai: 86.0 sol_deltai - sol_taoi: 24.0 sol_taoP:
                    sol deltaP: 68.0 sol_deltaP - sol_taoP: 6.0 cl_i: 6274930.0 sol_c_i: 6274930.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 0.
        19923078090151872
            i: 6.0 1_i: 6.0 p_i: 0.0 aI_i: 6.0
                                                                                       sol_a_i: 6.0 sol_g_i: 0.0 d_i: 27.0 sol_taoi: 6.0 sol_deltai: 22.0 sol_deltai - sol_taoi: 16.0 sol_taoP: 6.0
            sol deltaP: 12.0
                                              sol_deltaP - sol_taoP: 6.0 cl_i: 3976906.0 sol_c_i: 3976906.0 sol_gp_i: 0.0 total work: 4218304.0 wasted work: 0.
       9156210647691584
            i: 7.0 1_i: 5.0 p_i: 0.0 aI_i: 47.0
                                                                                      sol_a_i: 47.0 sol_g_i: 0.0 d_i: 78.0 sol_taoi: 47.0 sol_deltai: 74.0 sol_deltai - sol_taoi: 27.0 sol_taoP:
36
                     sol_deltaP: 54.0 sol_deltaP - sol_taoP: 7.0 cI_i: 6906554.0 sol_c_i: 6906554.0 sol_gp_i: 0.0 total work: 7382032.0 wasted work: 1.
        8034850025033757
      Time: 43.000000
38
39
40
41
```