```
unknown
   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=22480
 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 5.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 = 509.0
16
    The initial lb = -inf
                         ub = inf
17
18
19
    The current iteration cnt = 0
20
        The SP model was solved Optimal 2 and SPObj = 506.0
        Deterministic Sub problem Status= 2, is Optimal
21
22
        Master protblem status = 2, is Optimal
                              ub = 915.0
         MPObj = 915.0 MP_delete_Hua_Obj = 509.0
24
                                                        Hua = 406.0
                                                                       SPObi = 506.0
                                                                                        MP SP Obj = 406.0
                                                                                                                 Deter SP Obj = 406.0
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: 19.0 sol_g_i: 0.0 d_i: 32.0 sol_taoi: 19.0 sol_deltai: 32.0 sol_deltai - sol_taoi: 13.0 sol taoP:
29
      i: 0.0 l_i: 6.0 p_i: 0.0 al_i: 19.0
          sol deltaP: 23.0
                           sol_deltaP - sol_taoP: 4.0 cl_i: 3341761.0 sol_c_i: 3341761.0 sol_gp_i: 0.0 total work: 3427372.0 wasted work: 0.
    3247219735704207
                                            sol_a_i: 60.0 sol_g_i: 0.0 d_i: 74.0 sol_taoi: 60.0 sol_deltai: 74.0 sol_deltai - sol_taoi: 14.0 sol_taoP
30
      i: 1.0 1_i: 5.0 p_i: 29.0 aI_i: 60.0
     60.0 sol_deltaP: 64.0 sol_deltaP - sol_taoP: 4.0 cl_i: 3563474.0 sol_c_i: 3563474.0 sol_gp_i: 0.0 total work: 3691016.0 wasted work: 0.
    4837659874679492
                                             sol_a_i: 39.0 sol_g_i: 0.0 d_i: 56.0 sol_taoi: 39.0 sol_deltai: 56.0 sol_deltai - sol_taoi: 17.0 sol_taoP
      i: 2.0 1_i: 5.0 p_i: 20.0 aI_i: 39.0
     39.0 sol_deltaP: 42.0 sol_deltaP - sol_taoP: 3.0 cl_i: 4403690.0 sol_c_i: 4403690.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 2.
    2968320917601006
     i: 3.0 l_i: 7.0 p_i: 13.0 al_i: 56.0 sol_a_i: 56.0 sol_g_i: 0.0 d_i: 83.0 sol_taoi: 56.0 sol_deltai: 83.0 sol_deltai - sol_taoi: 27.0 sol_taoi: 27.0 sol_deltap - sol_taop: 5.0 cl_i: 7022243.0 sol_c_i: 7022243.0 sol_gp_i: 0.0 total work: 7250210.0 wasted work: 0.
32
                                             sol a i: 56.0 sol g i: 0.0 d i: 83.0 sol taoi: 56.0 sol deltai: 83.0 sol deltai - sol taoi: 27.0 sol taoP
    8646773679658935
      i: 4.0 1_i: 4.0 p_i: 9.0 aI_i: 56.0
                                           sol a i: 56.0 sol g i: 0.0 d i: 81.0 sol taoi: 56.0 sol deltai: 81.0 sol deltai - sol taoi: 25.0 sol taoP:
    56.0 sol_deltaP: 64.0 sol_deltaP - sol_taoP: 8.0 cl_i: 6458444.0
                                                                     sol_c_i: 6458444.0 sol_gp_i: 0.0 total work: 6459278.0 wasted work: 0.
    003163356647600552
                                           sol_a_i: 40.0 sol_g_i: 0.0
      i: 5.0 1_i: 4.0 p_i: 5.0 aI_i: 40.0
                                                                     d_i: 50.0 sol_taoi: 40.0 sol_deltai: 50.0 sol_deltai - sol_taoi: 10.0 sol_taoP:
          sol deltaP: 43.0 sol deltaP - sol taoP: 3.0 cl i: 2378777.0
                                                                     sol_c_i: 2378777.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 0.
    9773141053845337
      i: 6.0 1 i: 5.0 p i: 0.0 aI i: 37.0
                                           sol a i: 37.0 sol g i: 0.0
                                                                     d i: 52.0 sol taoi: 37.0 sol deltai: 46.0 sol deltai - sol taoi: 9.0 sol taoP:
          sol_deltaP: 40.0
                           sol_deltaP - sol_taoP: 3.0 cI_i: 2172927.0
                                                                     sol_c_i: 2172927.0 sol_gp_i: 0.0 total work: 2372796.0 wasted work: 0.
    7581018342916964
                                           sol_a_i: 62.0 sol_g_i: 0.0 d_i: 83.0 sol_taoi: 62.0 sol_deltai: 87.0 sol_deltai - sol_taoi: 25.0 sol_taoP:
      i: 7.0 1_i: 7.0 p_i: 0.0 aI_i: 62.0
36
           sol_deltaP: 69.0 sol_deltaP - sol_taoP: 7.0 cI_i: 6552802.0
                                                                     sol_c_i: 6552802.0 sol_gp_i: 0.0 total work: 6591100.0 wasted work: 0.
    1452640682131966
   Time: 39.000000
38
39
40
41
```