```
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=27154
  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 10 2.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 = 505.0
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 = 505.0
                   Deterministic Sub problem Status= 2, is Optimal
21
22
                   Master protblem status = 2, is Optimal
                                                                      ub = 848.0
                    MPObj = 848.0 MP_delete_Hua_Obj = 505.0
24
                                                                                                                                     Hua = 343.0
                                                                                                                                                                          SPObi = 505.0
                                                                                                                                                                                                               MP SP Obj = 343.0
                                                                                                                                                                                                                                                                             Deter SP Obj = 343.0
25
26
        ub - 1b = 0.0
27
28 Iteration cycle stopped by termination criterion 1: Because ub - lb \leq eps, the iteration stop, and cnt = 0
                                                                                                  sol_a_i: 56.0 sol_g_i: 0.0 d_i: 75.0 sol_taoi: 56.0 sol_deltai: 75.0 sol_deltai - sol_taoi: 19.0 sol taoP:
29
               i: 0.0 1_i: 6.0 p_i: 6.0 aI_i: 56.0
                       sol_deltaP: 60.0 sol_deltaP - sol_taoP: 4.0 cl_i: 4877652.0 sol_c_i: 4877652.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 0.
         49909726752742334
              i: 1.0 l_i: 7.0 p_i: 0.0 al_i: 18.0 sol_a_i: 18.0 sol_g_i: 0.0 d_i: 32.0 sol_taoi: 18.0 sol_deltai: 32.0 sol
30
                        sol deltaP: 20.0
                                                                 sol deltaP - sol taoP: 2.0 cI i: 3690865.0
                                                                                                                                                                     sol_c_i: 3690865.0 sol_gp_i: 0.0 total work: 3691016.0 wasted work: 0.
         0005727420309204837
            i: 2.0 l_i: 7.0 p_i: 17.0 al_i: 51.0 sol_a_i: 51.0 sol_g_i: 0.0 d_i: 71.0 sol_taoi: 51.0 sol_deltai: 71.0 so
                                                                                                           sol_a_i: 51.0 sol_g_i: 0.0 d_i: 71.0 sol_taoi: 51.0 sol_deltai: 71.0 sol_deltai - sol_taoi: 20.0 sol_taoP
         7390572135151947
           i: 3.0 l_i: 6.0 p_i: 15.0 al_i: 11.0 sol_a_i: 11.0 sol_g_i: 0.0 d_i: 32.0 sol_taoi: 11.0 sol_deltai: 32.0 sol_deltai: 32.0 sol_deltai - sol_taoi: 21.0 sol_deltaP: 14.0 sol_deltaP - sol_taoP: 3.0 cl_i: 5446369.0 sol_c_i: 5446369.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 3.
32
                                                                                                         sol a i: 11.0 sol g i: 0.0 d i: 32.0 sol taoi: 11.0 sol deltai: 32.0 sol deltai - sol taoi: 21.0 sol taoP
         341957336408187
                                                                                                      sol a i: 40.0 sol g i: 0.0 d i: 60.0 sol taoi: 40.0 sol deltai: 60.0 sol deltai - sol taoi: 20.0 sol taoP:
              i: 4.0 1_i: 6.0 p_i: 0.0 aI_i: 40.0
         40.0 sol_deltaP: 43.0 sol_deltaP - sol_taoP: 3.0 cI_i: 5202834.0
                                                                                                                                                                     sol_c_i: 5202834.0 sol_gp_i: 0.0 total work: 5536524.0 wasted work: 1.
         2656840284626238
              i: 5.0 1_i: 4.0 p_i: 7.0 al_i: 22.0 sol_a_i: 22.0 sol_g_i: 0.0 d_i: 44.0 sol_taoi: 22.0 sol_deltai: 44.0 sol_deltai: 44.0 sol_deltai: 44.0 sol_deltai - sol_taoi: 22.0 sol_c_i: 5709150.0 sol_g_i: 0.0 total work: 5800168.0 wasted work: 0.
                                                                                                  sol_a_i: 22.0 sol_g_i: 0.0 d_i: 44.0 sol_taoi: 22.0 sol_deltai: 44.0 sol_deltai - sol_taoi: 22.0 sol_taoP:
         34523068986967276
                                                                                                            sol_a_i: 2.0 sol_g_i: 0.0 d_i: 21.0 sol_taoi: 2.0 sol_deltai: 20.0 sol_deltai - sol_taoi: 18.0 sol_taoP: 2
              i: 6.0 1_i: 5.0 p_i: 21.0 aI_i: 2.0
                 sol_deltaP: 5.0 sol_deltaP - sol_taoP: 3.0 cl_i: 4706531.0 sol_c_i: 4706531.0 sol_gp_i: 0.0 total work: 5536524.0 wasted work: 3.
         148158122316457
               i: 7.0 1_i: 6.0 p_i: 24.0 aI_i: 47.0
                                                                                                            sol_a_i: 47.0 sol_g_i: 0.0 d_i: 66.0 sol_taoi: 47.0 sol_deltai: 66.0 sol_deltai - sol_taoi: 19.0 sol_taoP
36
         : 47.0 sol_deltaP: 51.0 sol_deltaP - sol_taoP: 4.0 cl_i: 4994677.0 sol_c_i: 4994677.0 sol_gp_i: 0.0 total work: 5009236.0 wasted work: 0.
         05522219356404849
              i: 8.0 1_i: 5.0 p_i: 12.0 aI_i: 43.0
                                                                                                            sol a i: 43.0 sol g i: 0.0 d i: 65.0 sol taoi: 43.0 sol deltai: 63.0 sol deltai - sol taoi: 20.0 sol taoP
37
            43.0 sol_deltaP: 47.0 sol_deltaP - sol_taoP: 4.0 cI_i: 5174489.0
                                                                                                                                                                   sol_c_i: 5174489.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
         37319643155163784
           i: 9.0 1_i: 4.0 p_i: 11.0 aI_i: 16.0 sol_a_i: 16.0 sol_g_i: 0.0 d_i: 45.0 sol_taoi: 16.0 sol_deltai: 42.0 sol_deltai - sol_taoi: 26.0 sol_delt
                                                                                                           sol a i: 16.0 sol g i: 0.0 d i: 45.0 sol taoi: 16.0 sol deltai: 42.0 sol deltai - sol taoi: 26.0 sol taoP
         2725796907951632
       Time: 106.000000
40
41
42
```