```
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=21917
  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 7.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 = 417.0
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 = 417.0
               Deterministic Sub problem Status= 2, is Optimal
21
22
               Master protblem status = 2, is Optimal
                                                       ub = 737.0
                MPObj = 737.0 MP_delete_Hua_Obj = 417.0
24
                                                                                                        Hua = 320.0
                                                                                                                                     SPObi = 417.0
                                                                                                                                                                 MP SP Obj = 320.0
                                                                                                                                                                                                                  Deter SP Obj = 320.0
25
26
     ub - 1b = 0.0
27
28 Iteration cycle stopped by termination criterion 1: Because ub - 1b \le eps, the iteration stop, and ext{cnt} = 0
29
           i: 0.0 1_i: 7.0 p_i: 17.0 aI_i: 33.0
                                                                                    sol_a_i: 33.0 sol_g_i: 0.0 d_i: 44.0 sol_taoi: 33.0 sol_deltai: 44.0 sol_deltai - sol_taoi: 11.0 sol_taoP
          33.0 sol_deltaP: 36.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2840843.0 sol_c_i: 2840843.0 sol_gp_i: 0.0 total work: 3427372.0 wasted work: 2.
       22470073280636
           i: 1.0 l_i: 5.0 p_i: 29.0 al_i: 33.0 sol_a_i: 33.0 sol_g_i: 0.0 d_i: 51.0 sol_taoi: 33.0 sol_deltai: 49.0 sol_deltai - sol_taoi: 16.0 sol_taoP
30
                                                                                                                               sol c i: 4207815.0 sol gp i: 0.0 total work: 4481948.0 wasted work: 1.
         33.0 sol deltaP: 37.0 sol deltaP - sol taoP: 4.0 cI i: 4207815.0
       0397847096842712
       i: 2.0 l_i: 5.0 p_i: 5.0 al_i: 57.0 sol_a_i: 57.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 57.0 sol_deltai: 65.0 sol
                                                                               sol_a_i: 57.0 sol_g_i: 0.0 d_i: 67.0 sol_taoi: 57.0 sol_deltai: 65.0 sol_deltai - sol_taoi: 8.0 sol_taoP:
       46660648450182823
         i: 3.0 l_i: 5.0 p_i: 17.0 al_i: 15.0 sol_a_i: 15.0 sol_g_i: 0.0 d_i: 27.0 sol_taoi: 15.0 sol_deltai: 25.0 sol_deltai - sol_taoi: 10.0 sol_taoi: 10.0 sol_deltai - sol_taoi: 10.0 sol_taoi: 10.
32
                                                                                 sol a i: 15.0 sol g i: 0.0 d i: 27.0 sol taoi: 15.0 sol deltai: 25.0 sol deltai - sol taoi: 10.0 sol taoP
       9265031633566476
                                                                               sol a i: 42.0 sol g i: 0.0 d i: 62.0 sol taoi: 42.0 sol deltai: 60.0 sol deltai - sol taoi: 18.0 sol taoP:
           i: 4.0 1_i: 5.0 p_i: 0.0 aI_i: 42.0
       42.0 sol_deltaP: 47.0 sol_deltaP - sol_taoP: 5.0 cI_i: 4664365.0
                                                                                                                                 sol_c_i: 4664365.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 2.
       3080934897058154
           i: 5.0 1_i: 6.0 p_i: 0.0 aI_i: 17.0
                                                                               sol_a_i: 17.0 sol_g_i: 0.0 d_i: 40.0 sol_taoi: 17.0 sol_deltai: 27.0 sol_deltai - sol_taoi: 10.0 sol_taoP:
                   sol deltaP: 20.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2545163.0
                                                                                                                                 sol c i: 2545163.0 sol gp i: 0.0 total work: 2900084.0 wasted work: 1.
       3462130752074768
           i: 6.0 1 i: 5.0 p i: 12.0 aI i: 21.0
                                                                                     sol_a_i: 21.0 sol_g_i: 0.0 d_i: 48.0 sol_taoi: 21.0 sol_deltai: 34.0 sol_deltai - sol_taoi: 13.0 sol_taoP
       : 21.0 sol_deltaP: 24.0 sol_deltaP - sol_taoP: 3.0 cl_i: 3368785.0 sol_c_i: 3368785.0 sol_gp_i: 0.0 total work: 4745592.0 wasted work: 5.
       222220115003565
           i: 7.0 1_i: 6.0 p_i: 0.0 aI_i: 37.0
                                                                                sol_a_i: 37.0 sol_g_i: 0.0 d_i: 57.0 sol_taoi: 37.0 sol_deltai: 41.0 sol_deltai - sol_taoi: 4.0 sol_taoP:
36
                   sol_deltaP: 38.0 sol_deltaP - sol_taoP: 1.0 cI_i: 1034170.0
                                                                                                                                 sol_c_i: 1034170.0 sol_gp_i: 0.0 total work: 1054576.0 wasted work: 0.
       07739982703949265
                                                                                sol a i: 8.0 sol g i: 0.0 d i: 41.0 sol taoi: 8.0 sol deltai: 25.0 sol deltai - sol taoi: 17.0 sol taoP: 8.0
37
           i: 8.0\ 1_i: 5.0\ p_i: 6.0\ aI_i: 8.0
                                          sol_deltaP - sol_taoP: 5.0 cl_i: 4472421.0 sol_c_i: 4472421.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 3.
           sol_deltaP: 13.0
       036135849858142
           i: 9.0 1_i: 5.0 p_i: 24.0 aI_i: 25.0
                                                                                  sol a i: 25.0 sol g i: 0.0 d i: 58.0 sol taoi: 25.0 sol deltai: 47.0 sol deltai - sol taoi: 22.0 sol taoP
       : 25.0 sol_deltaP: 29.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5689847.0 sol_c_i: 5689847.0 sol_gp_i: 0.0 total work: 6327456.0 wasted work: 2.
       418446844987938
     Time: 53.000000
40
41
42
43
```