```
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=7849
  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 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 = 390.0
 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 = 390.0
             Deterministic Sub problem Status= 2, is Optimal
21
22
             Master protblem status = 2, is Optimal
             1b = 686.0
                                               ub = 686.0
              MPObj = 686.0
                                        MP_delete_Hua_Obj = 390.0
 24
                                                                                        Hua = 296.0
                                                                                                                SPObi = 390.0
                                                                                                                                           MP SP Obi = 296.0
                                                                                                                                                                                 Deter SP Obj = 296.0
 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: 40.0
                                                                       sol\_a\_i: \ 40.0 \quad sol\_g\_i: \ 0.0 \quad d\_i: \ 60.0 \quad sol\_taoi: \ 40.0 \quad sol\_deltai: \ 60.0 \quad sol\_deltai - sol\_taoi: \ 20.0 \quad sol\_taoP
         40.0 sol_deltaP: 44.0 sol_deltaP - sol_taoP: 4.0 cl_i: 5228251.0 sol_c_i: 5228251.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
       1692775105824521
          i: 1.0 1_i: 4.0 p_i: 22.0 aI_i: 65.0
                                                                     sol_a_i: 65.0 sol_g_i: 0.0 d_i: 84.0 sol_taoi: 65.0 sol_deltai: 84.0 sol_deltai - sol_taoi: 19.0 sol_taoP
 30
       : 65.0 sol deltaP: 69.0 sol deltaP - sol taoP: 4.0 cI i: 4785088.0
                                                                                                            sol c i: 4785088.0 sol gp i: 0.0 total work: 4877414.0 wasted work: 0.
      3501919254752621
         i: 2.0 l_i: 6.0 p_i: 16.0 al_i: 27.0 sol_a_i: 27.0 sol_g_i: 0.0 d_i: 54.0 sol_taoi: 27.0 sol_deltai: 54.0 so
                                                                       sol_a_i: 27.0 sol_g_i: 0.0 d_i: 54.0 sol_taoi: 27.0 sol_deltai: 54.0 sol_deltai - sol_taoi: 27.0 sol_taoP
       9983879777275417
         i: 3.0 l_i: 5.0 p_i: 11.0 al_i: 62.0 sol_a_i: 62.0 sol_g_i: 0.0 d_i: 76.0 sol_taoi: 62.0 sol_deltai: 76.0 sol_deltai - sol_taoi: 14.0 sol_caoi: 62.0 sol_deltai - sol_taoi: 3642623.0 sol_g_i: 3642623.0 sol_g_i: 0.0 total work: 3954660.0 wasted work: 1.
 32
                                                                       sol a i: 62.0 sol g i: 0.0 d i: 76.0 sol taoi: 62.0 sol deltai: 76.0 sol deltai - sol taoi: 14.0 sol taoP
       1835543384260594
                                                                   sol a i: 39.0 sol g i: 0.0 d i: 58.0 sol taoi: 39.0 sol deltai: 55.0 sol deltai - sol taoi: 16.0 sol taoP:
          i: 4.0 1_i: 4.0 p_i: 7.0 aI_i: 39.0
      39.0 sol_deltaP: 43.0 sol_deltaP - sol_taoP: 4.0 cI_i: 4163453.0
                                                                                                             sol_c_i: 4163453.0 sol_gp_i: 0.0 total work: 4218304.0 wasted work: 0.
      20804949098026126
          i: 5.0 1_i: 7.0 p_i: 0.0 aI_i: 25.0
                                                                    sol_a_i: 25.0 sol_g_i: 0.0 d_i: 49.0 sol_taoi: 25.0 sol_deltai: 42.0 sol_deltai - sol_taoi: 17.0 sol_taoP:
                sol deltaP: 30.0 sol deltaP - sol taoP: 5.0 cI i: 4423517.0
                                                                                                            sol_c_i: 4423517.0 sol_gp_i: 0.0 total work: 4481948.0 wasted work: 0.
      22162840800473366
                                                                    sol a i: 9.0 sol g i: 0.0 d i: 21.0 sol taoi: 9.0 sol deltai: 19.0 sol deltai - sol taoi: 10.0 sol taoP: 9.0
 35
          i: 6.0 1_i: 5.0 p_i: 0.0 aI_i: 9.0
          sol_deltaP: 12.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2562192.0 sol_c_i: 2562192.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 0.
       28162218749525875
      Time: 72.000000
 36
 37
 38
 39
 40
```