```
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=6123
  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 6 10.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 = 239.0
 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 = 239.0
             Deterministic Sub problem Status= 2, is Optimal
21
22
             Master protblem status = 2, is Optimal
                                                ub = 412.0
              MPObj = 412.0 MP_delete_Hua_Obj = 239.0
 24
                                                                                         Hua = 173.0
                                                                                                                  SPObi = 239.0
                                                                                                                                             MP SP Obj = 173.0
                                                                                                                                                                                   Deter SP Obj = 173.0
 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: 23.0 aI_i: 34.0
                                                                        sol\_a\_i: 34.0 \quad sol\_g\_i: 0.0 \quad d\_i: 49.0 \quad sol\_taoi: 34.0 \quad sol\_deltai: 47.0 \quad sol\_deltai - sol\_taoi: 13.0 \quad sol\_taoP
         34.0 sol_deltaP: 36.0 sol_deltaP - sol_taoP: 2.0 cl_i: 3303083.0 sol_c_i: 3303083.0 sol_gp_i: 0.0 total work: 3427372.0 wasted work: 0.
      47142737934487416
          i: 1.0 1_i: 7.0 p_i: 16.0 aI_i: 42.0
                                                                      sol_a_i: 42.0 sol_g_i: 0.0 d_i: 60.0 sol_taoi: 42.0 sol_deltai: 58.0 sol_deltai - sol_taoi: 16.0 sol_taoP
 30
         42.0 sol deltaP: 45.0 sol deltaP - sol taoP: 3.0 cI i: 4011907.0
                                                                                                             sol c i: 4011907.0 sol gp i: 0.0 total work: 4218304.0 wasted work: 0.
       7828624963966561
         i: 2.0 l_i: 5.0 p i: 11.0 al_i: 26.0 sol_a i: 26.0 sol_g i: 0.0 d_i: 40.0 sol_taoi: 26.0 sol_deltai: 38.0 sol_deltai - sol_taoi: 12.0 sol_deltai - sol_taoi: 12.0 sol_deltai - sol_taoi: 26.0 sol_deltai - sol_taoi: 12.0 sol_delt
                                                                        sol_a_i: 26.0 sol_g_i: 0.0 d_i: 40.0 sol_taoi: 26.0 sol_deltai: 38.0 sol_deltai - sol_taoi: 12.0 sol_taoP
       2021741439213485
          i: 3.0 1_i: 5.0 p_i: 6.0 aI_i: 7.0 sol deltaP: 12.0 sol deltaP - sol t
                                                                     sol_a_i: 7.0 sol_g_i: 0.0 d_i: 24.0 sol_taoi: 7.0 sol_deltai: 22.0 sol_deltai - sol_taoi: 15.0 sol_taoP: 7.0
                                     sol_deltaP - sol_taoP: 5.0 cl_i: 3807596.0 sol_c_i: 3807596.0 sol_gp_i: 0.0 total work: 3954660.0 wasted work: 0.
      5578128081807285
                                                                    sol a i: 41.0 sol g i: 0.0 d i: 57.0 sol taoi: 41.0 sol deltai: 52.0 sol deltai - sol taoi: 11.0 sol taoP:
           i: 4.0 1_i: 5.0 p_i: 6.0 aI_i: 41.0
      41.0 sol_deltaP: 45.0 sol_deltaP - sol_taoP: 4.0 cl_i: 2751222.0 sol_c_i: 2751222.0 sol_gp_i: 0.0 total work: 2900084.0 wasted work: 0.
       5646326106416228
           i: 5.0 1_i: 6.0 p_i: 0.0 aI_i: 2.0
                                                                     sol_a_i: 2.0 sol_g_i: 0.0 d_i: 27.0 sol_taoi: 2.0 sol_deltai: 22.0 sol_deltai - sol_taoi: 20.0 sol_taoP: 2.0
           sol_deltaP: 7.0 sol_deltaP - sol_taoP: 5.0 cl_i: 5054287.0 sol_c_i: 5054287.0 sol_gp_i: 0.0 total work: 5272880.0 wasted work: 0.
       8291218461258364
      Time: 28.000000
 37
38
 39
```