```
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=5953
  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 8.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 = 262.0
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 = 262.0
                  Deterministic Sub problem Status= 2, is Optimal
21
22
                  Master protblem status = 2, is Optimal
                  1b = 455.0
                                                                    ub = 455.0
                   MPObj = 455.0 MP_delete_Hua_Obj = 262.0
24
                                                                                                                                Hua = 193.0
                                                                                                                                                                   SPObi = 262.0
                                                                                                                                                                                                          MP SP Obj = 193.0
                                                                                                                                                                                                                                                                  Deter SP Obj = 193.0
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: 4.0 p_i: 17.0 aI_i: 1.0
                                                                                                       sol_a_i: 1.0 sol_g_i: 0.0 d_i: 29.0 sol_taoi: 1.0 sol_deltai: 27.0 sol_deltai - sol_taoi: 26.0 sol_taoP: 1
                   sol_deltaP: 7.0 sol_deltaP - sol_taoP: 6.0 cI_i: 6681262.0
                                                                                                                                                  sol_c_i: 6681262.0 sol_gp_i: 0.0 total work: 7909320.0 wasted work: 4.
        658016112636737
              i: 1.0 \ 1\_i: 6.0 \ p\_i: 0.0 \ aI\_i: 42.0 \ sol\_a\_i: 42.0 \ sol\_g\_i: 0.0 \ d\_i: 54.0 \ sol\_taoi: 42.0 \ sol\_deltai: 52.0 \ so
30
        42.0 sol deltaP: 45.0 sol deltaP - sol taoP: 3.0 cI i: 2426435.0
                                                                                                                                                              sol_c_i: 2426435.0 sol_gp_i: 0.0 total work: 3163728.0 wasted work: 2.
        7965476172414316
                                                                                                  sol_a_i: 25.0 sol_g_i: 0.0 d_i: 42.0 sol_taoi: 25.0 sol_deltai: 40.0 sol_deltai - sol taoi: 15.0 sol taoP:
        i: 2.0 1 i: 5.0 p i: 7.0 aI i: 25.0 sol a i: 25.0 sol g i: 0.0 25.0 sol_deltaP: 32.0 sol_deltaP - sol_taoP: 7.0 cI i: 3919107.0
                                                                                                                                                              sol_c_i: 3919107.0 sol_gp_i: 0.0 total work: 4086482.0 wasted work: 0.
        634852300829907
           i: 3.0 1_i: 5.0 p_i: 12.0 aI_i: 27.0 sol_a_i: 27.0 sol_g_i: 0.0 d_i: 41.0 sol_taoi: 27.0 sol_deltai: 39.0 sol_deltai - sol_taoi: 12.0 sol_deltai - sol_taoi: 12.0 sol_deltai - sol_taoi: 27.0 sol_deltai - sol_taoi: 12.0 sol_delt
                                                                                                     sol a i: 27.0 sol g i: 0.0 d i: 41.0 sol taoi: 27.0 sol deltai: 39.0 sol deltai - sol taoi: 12.0 sol taoP
         5139923533249382
        i: 4.0\ 1_{\text{i}}: 7.0\ p_{\text{i}}: 0.0\ aI_{\text{i}}: 18.0\ sol_{\text{a}} i: 18.0\ sol_{\text{g}} i: 0.0\ 18.0\ sol_{\text{deltaP}}: 23.0\ sol_{\text{deltaP}} - sol_{\text{taoP}}: 5.0\ cI_{\text{i}}: 3588314.0
                                                                                                 sol a i: 18.0 sol g i: 0.0 d i: 34.0 sol taoi: 18.0 sol deltai: 32.0 sol deltai - sol taoi: 14.0 sol taoP:
                                                                                                                                                              sol_c_i: 3588314.0 sol_gp_i: 0.0 total work: 3954660.0 wasted work: 1.
        3895480268847384
              i: 5.0 1_i: 7.0 p_i: 6.0 aI_i: 49.0
                                                                                                 sol_a_i: 49.0 sol_g_i: 0.0 d_i: 77.0 sol_taoi: 49.0 sol_deltai: 72.0 sol_deltai - sol_taoi: 23.0 sol_taoP:
                       sol deltaP: 57.0 sol_deltaP - sol_taoP: 8.0 cl_i: 5845581.0 sol_c_i: 5845581.0 sol_gp_i: 0.0 total work: 5931990.0 wasted work: 0.
        3277487824490601
       Time: 25.000000
37
38
39
```