```
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=31613
   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 8 6.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 = 365.0
 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 = 365.0
                 Deterministic Sub problem Status= 2, is Optimal
 21
 22
                 Master protblem status = 2, is Optimal
                                                            ub = 663.0
                  MPObj = 663.0
                                                  MP_delete_Hua_Obj = 365.0
 24
                                                                                                                Hua = 298.0
                                                                                                                                               SPObi = 365.0
                                                                                                                                                                                MP SP Obj = 298.0
                                                                                                                                                                                                                                 Deter SP Obj = 298.0
 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
 29
             i: 0.0 1_i: 4.0 p_i: 30.0 aI_i: 24.0
                                                                                           sol_a_i: 24.0 sol_g_i: 0.0 d_i: 32.0 sol_taoi: 24.0 sol_deltai: 32.0 sol_deltai - sol_taoi: 8.0 sol_taoP
           24.0 sol_deltaP: 27.0 sol_deltaP - sol_taoP: 3.0 cl_i: 1949984.0 sol_c_i: 1949984.0 sol_gp_i: 0.0 total work: 1977330.0 wasted work: 0.
         10372320250034137
             i: 1.0 1_i: 6.0 p_i: 24.0 aI_i: 31.0
                                                                                       sol_a_i: 31.0 sol_g_i: 0.0 d_i: 39.0 sol_taoi: 31.0 sol_deltai: 39.0 sol_deltai - sol_taoi: 8.0 sol_taoP
 30
                                                                                                                                         sol c i: 1960425.0 sol gp i: 0.0 total work: 2240974.0 wasted work: 1.
           31.0 sol deltaP: 33.0 sol deltaP - sol taoP: 2.0 cI i: 1960425.0
        0641205565080183
           i: 2.0 l_i: 7.0 p_i: 17.0 al_i: 17.0 sol_a_i: 17.0 sol_a_i: 17.0 sol_a_i: 29.0 sol_taoi: 17.0 sol_deltai: 29.0 sol_deltai: 29
                                                                                           sol_a_i: 17.0 sol_g_i: 0.0 d_i: 29.0 sol_taoi: 17.0 sol_deltai: 29.0 sol_deltai - sol_taoi: 12.0 sol_taoP
        018782904219326
           i: 3.0\ 1_i: 5.0\ p_i: 11.0\ aI_i: 29.0\ sol\_a_i: 29.0\ sol\_a_ii: 29.0\ sol\_a_ii
                                                                                          sol a i: 29.0 sol g i: 0.0 d i: 42.0 sol taoi: 29.0 sol deltai: 42.0 sol deltai - sol taoi: 13.0 sol taoP
        32299995448407703
                                                                                      sol a i: 6.0 sol g i: 0.0 d i: 23.0 sol taoi: 6.0 sol deltai: 23.0 sol deltai - sol taoi: 17.0 sol taoP: 6.0
             i: 4.0 1_i: 4.0 p_i: 0.0 aI_i: 6.0
             sol deltaP: 15.0
                                              sol_deltaP - sol_taoP: 9.0 cl_i: 4374536.0 sol_c_i: 4374536.0 sol_gp_i: 0.0 total work: 4481948.0 wasted work: 0.
        4074130266571589
             i: 5.0 l_i: 6.0 p_i: 5.0 al_i: 51.0 sol_a_i: 51.0 sol_g_i: 0.0 
.0 sol_deltaP: 56.0 sol_deltaP - sol_taoP: 5.0 cl_i: 4257088.0
                                                                                   sol_a_i: 51.0 sol_g_i: 0.0 d_i: 72.0 sol_taoi: 51.0 sol_deltai: 68.0 sol_deltai - sol_taoi: 17.0 sol_taoP:
                                                                                                                                          sol_c_i: 4257088.0 sol_gp_i: 0.0 total work: 4481948.0 wasted work: 0.
         8528925369058276
             i: 6.0 1_i: 5.0 p_i: 0.0 aI_i: 54.0
                                                                                       sol a i: 54.0 sol g i: 0.0 d i: 70.0 sol taoi: 54.0 sol deltai: 66.0 sol deltai - sol taoi: 12.0 sol taoP:
                     sol_deltaP: 59.0 sol_deltaP - sol_taoP: 5.0 cI_i: 3058819.0
                                                                                                                                          sol_c_i: 3058819.0 sol_gp_i: 0.0 total work: 3163728.0 wasted work: 0.
        39791916372077496
             i: 7.0 1_i: 7.0 p_i: 27.0 aI_i: 54.0
                                                                                          sol_a_i: 54.0 sol_g_i: 0.0 d_i: 69.0 sol_taoi: 54.0 sol_deltai: 66.0 sol_deltai - sol_taoi: 12.0 sol_taoP
 36
         : 54.0 sol_deltaP: 57.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2972779.0 sol_c_i: 2972779.0 sol_gp_i: 0.0 total work: 3031906.0 wasted work: 0.
         22426833153798303
       Time: 33.000000
 38
 39
 40
 41
```