```
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=15678
 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 3.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 = 266.0
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 = 266.0
        Deterministic Sub problem Status= 2, is Optimal
21
22
        Master protblem status = 2, is Optimal
                              ub = 466.0
         MPObj = 466.0
                         MP_delete_Hua_Obj = 266.0
24
                                                        Hua = 200.0
                                                                       SPObi = 266.0
                                                                                        MP SP Obj = 200.0
                                                                                                                Deter SP Obj = 200.0
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: 5.0 p_i: 14.0 aI_i: 15.0
                                             sol\_a\_i: 15.0 \quad sol\_g\_i: 0.0 \quad d\_i: 25.0 \quad sol\_taoi: 15.0 \quad sol\_deltai: 25.0 \quad sol\_deltai - sol\_taoi: 10.0 \quad sol\_taoP
     15.0 sol_deltaP: 17.0 sol_deltaP - sol_taoP: 2.0 cl_i: 2543904.0 sol_c_i: 2543904.0 sol_gp_i: 0.0 total work: 3163728.0 wasted work: 2.
    3509884541275357
      i: 1.0 1_i: 4.0 p_i: 20.0 aI_i: 48.0
                                            sol_a_i: 48.0 sol_g_i: 0.0 d_i: 73.0 sol_taoi: 48.0 sol_deltai: 73.0 sol_deltai - sol_taoi: 25.0 sol_taoP
30
                                                                    sol_c_i: 6461785.0 sol_gp_i: 0.0 total work: 6722922.0 wasted work: 0.
     48.0 sol deltaP: 56.0 sol deltaP - sol taoP: 8.0 cI i: 6461785.0
    990490965089287
                                             sol_a_i: 39.0 sol_g_i: 0.0 d_i: 48.0 sol_taoi: 39.0 sol_deltai: 48.0 sol_deltai - sol_taoi: 9.0 sol_taoP
      i: 2.0 l_i: 6.0 p_i: 14.0 aI_i: 39.0
     39.0 sol_deltaP: 41.0 sol_deltaP - sol_taoP: 2.0 cl_i: 2338421.0 sol_c_i: 2338421.0 sol_gp_i: 0.0 total work: 3691016.0 wasted work: 5.
    13038415439001
    i: 3.0\ 1 i: 7.0\ p i: 7.0\ aI i: 20.0\ sol\ aI i: 20.0\ sol\ aI i: 20.0\ sol\ g i: 0.0\ 20.0\ sol\ deltaP: 23.0\ sol\ deltaP - sol\ taoP: 3.0\ cI i: 5238656.0
32
                                          sol a i: 20.0 sol g i: 0.0 d i: 40.0 sol taoi: 20.0 sol deltai: 40.0 sol deltai - sol taoi: 20.0 sol taoP:
                                                                     sol_c_i: 5238656.0 sol_gp_i: 0.0 total work: 5404702.0 wasted work: 0.
    6298114123590903
                                           sol a i: 7.0 sol g i: 0.0 d i: 25.0 sol taoi: 7.0 sol deltai: 21.0 sol deltai - sol taoi: 14.0 sol taoP: 7.0
      i: 4.0 1_i: 7.0 p_i: 0.0 aI_i: 7.0
      sol deltaP: 11.0
                       sol_deltaP - sol_taoP: 4.0 cl_i: 3613355.0 sol_c_i: 3613355.0 sol_gp_i: 0.0 total work: 4218304.0 wasted work: 2.
    2945676745914945
      i: 5.0 1_i: 6.0 p_i: 0.0 aI_i: 49.0
                                         sol_a_i: 49.0 sol_g_i: 0.0 d_i: 61.0 sol_taoi: 49.0 sol_deltai: 59.0 sol_deltai - sol_taoi: 10.0 sol_taoP:
          sol_deltaP: 52.0 sol_deltaP - sol_taoP: 3.0 cl_i: 2410213.0 sol_c i: 2410213.0 sol_gp_i: 0.0 total work: 2636440.0 wasted work: 0.
    85807755913277
   Time: 25.000000
37
38
39
```