```
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=6035

import sys; print('Python %s on %s' % (sys.version, sys.platform))
sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□□\\1 □□□□□□□□□\\1_□□□□□□_□□□□\\1_LW _□□□□1\\4 □□□□\\3 python_code\\9 Code for this paper', 'E:/1 □□□□/3 □□□□□/1 □□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□/3 python_code/9 Code for this paper'])

PyDev console: starting.

Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
>>> runfile('E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□/3 python_code/9 Code for this paper/main_ECCG_deterministic.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW _□□□□1/4 □□□□/3 python_code/9 Code for this paper')
Backend TkAgg is interactive backend. Turning interactive mode on.
Waiting 5s.....

Optimize the  ./R_6_9.xlsx  instance by ECCG for deterministic model

Set parameter MIPGap to value 0.01
      Master protblem status =  2 , is Optimal and MP obj =  355.0
The initial lb =  -inf       ub =  inf

The current iteration cnt =  0
      The SP model was solved Optimal 2 and SPObj =  355.0
      Deterministic Sub problem Status=  2 , is Optimal
      Master protblem status =  2 , is Optimal
      lb =  616.0                  ub =  616.0
       MPObj =  616.0     MP_delete_Hua_Obj =  355.0       Hua =  261.0       SPObj =  355.0       MP_SP_Obj =  261.0         Deter_SP_Obj =  261.0

ub - lb =  0.0

Iteration cycle stopped by termination criterion 1: Because ub - lb <= eps, the iteration stop, and cnt =  0
    i:  0.0  l_i:  5.0   p_i:  0.0  aI_i:  1.0        sol_a_i:  1.0    sol_g_i:  0.0    d_i:  22.0    sol_taoi:  1.0   sol_deltai:  20.0  sol_deltai - sol_taoi:  19.0  sol_taoP:  1.0    sol_deltaP:  6.0   sol_deltaP - sol_taoP:  5.0   cI_i:  4929520.0     sol_c_i:  4929520.0    sol_gp_i:  0.0  total work:  5009236.0    wasted work:  0.3023622764030283
    i:  1.0  l_i:  4.0   p_i:  30.0    aI_i:  36.0       sol_a_i:  36.0  sol_g_i:  0.0    d_i:  66.0    sol_taoi:  36.0    sol_deltai:  64.0  sol_deltai - sol_taoi:  28.0  sol_taoP:  36.0  sol_deltaP:  44.0    sol_deltaP - sol_taoP:  8.0  cI_i:  7260454.0     sol_c_i:  7260454.0    sol_gp_i:  0.0  total work:  7382032.0    wasted work:  0.46114457374338125
    i:  2.0  l_i:  7.0   p_i:  23.0    aI_i:  58.0       sol_a_i:  58.0  sol_g_i:  0.0    d_i:  76.0    sol_taoi:  58.0    sol_deltai:  74.0  sol_deltai - sol_taoi:  16.0  sol_taoP:  58.0  sol_deltaP:  60.0    sol_deltaP - sol_taoP:  2.0  cI_i:  4163291.0     sol_c_i:  4163291.0    sol_gp_i:  0.0  total work:  4218304.0    wasted work:  0.20866395594058654
    i:  3.0  l_i:  6.0   p_i:  17.0    aI_i:  40.0       sol_a_i:  40.0  sol_g_i:  0.0    d_i:  68.0    sol_taoi:  40.0    sol_deltai:  66.0  sol_deltai - sol_taoi:  26.0  sol_taoP:  40.0  sol_deltaP:  45.0    sol_deltaP - sol_taoP:  5.0  cI_i:  6657387.0     sol_c_i:  6657387.0    sol_gp_i:  0.0  total work:  6854744.0    wasted work:  0.7485738344130721
    i:  4.0  l_i:  5.0   p_i:  0.0   aI_i:  60.0       sol_a_i:  60.0  sol_g_i:  0.0    d_i:  83.0    sol_taoi:  60.0    sol_deltai:  81.0  sol_deltai - sol_taoi:  21.0  sol_taoP:  60.0    sol_deltaP:  66.0    sol_deltaP - sol_taoP:  6.0  cI_i:  5517711.0     sol_c_i:  5517711.0    sol_gp_i:  0.0  total work:  6063812.0    wasted work:  2.0713575882629605
    i:  5.0  l_i:  6.0   p_i:  0.0   aI_i:  29.0       sol_a_i:  29.0  sol_g_i:  0.0    d_i:  54.0    sol_taoi:  29.0    sol_deltai:  50.0  sol_deltai - sol_taoi:  21.0  sol_taoP:  29.0    sol_deltaP:  40.0    sol_deltaP - sol_taoP:  11.0    cI_i:  5404610.0     sol_c_i:  5404610.0    sol_gp_i:  0.0  total work:  5800168.0    wasted work:  1.5003489554095675
Time: 32.000000
```