```
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=5862

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_7.xlsx  instance by ECCG for deterministic model

Set parameter MIPGap to value 0.01
      Master protblem status =  2 , is Optimal and MP obj =  274.0
The initial lb =  -inf       ub =  inf

The current iteration cnt =  0
      The SP model was solved Optimal 2 and SPObj =  274.0
      Deterministic Sub problem Status=  2 , is Optimal
      Master protblem status =  2 , is Optimal
      lb =  483.0                  ub =  483.0
       MPObj =  483.0     MP_delete_Hua_Obj =  274.0       Hua =  209.0       SPObj =  274.0       MP_SP_Obj =  209.0         Deter_SP_Obj =  209.0

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:  10.0    aI_i:  49.0      sol_a_i:  49.0  sol_g_i:  0.0    d_i:  77.0    sol_taoi:  49.0    sol_deltai:  75.0  sol_deltai - sol_taoi:  26.0  sol_taoP:  49.0  sol_deltaP:  57.0    sol_deltaP - sol_taoP:  8.0  cI_i:  6837804.0    sol_c_i:  6837804.0    sol_gp_i:  0.0  total work:  6854744.0    wasted work:  0.06425331128339731
    i:  1.0  l_i:  5.0   p_i:  0.0   aI_i:  12.0      sol_a_i:  12.0  sol_g_i:  0.0    d_i:  31.0    sol_taoi:  12.0    sol_deltai:  29.0  sol_deltai - sol_taoi:  17.0  sol_taoP:  12.0    sol_deltaP:  17.0    sol_deltaP - sol_taoP:  5.0  cI_i:  4225339.0    sol_c_i:  4225339.0    sol_gp_i:  0.0  total work:  4481948.0    wasted work:  0.973316290148837
    i:  2.0  l_i:  7.0   p_i:  5.0   aI_i:  13.0      sol_a_i:  13.0  sol_g_i:  0.0    d_i:  23.0    sol_taoi:  13.0    sol_deltai:  21.0  sol_deltai - sol_taoi:  8.0    sol_taoP:  13.0    sol_deltaP:  16.0    sol_deltaP - sol_taoP:  3.0  cI_i:  1954966.0    sol_c_i:  1954966.0    sol_gp_i:  0.0  total work:  1977330.0    wasted work:  0.08482650847354767
    i:  3.0  l_i:  6.0   p_i:  0.0   aI_i:  40.0      sol_a_i:  40.0  sol_g_i:  0.0    d_i:  54.0    sol_taoi:  40.0    sol_deltai:  52.0  sol_deltai - sol_taoi:  12.0  sol_taoP:  40.0    sol_deltaP:  43.0    sol_deltaP - sol_taoP:  3.0  cI_i:  3018028.0    sol_c_i:  3018028.0    sol_gp_i:  0.0  total work:  3163728.0    wasted work:  0.5526391649345329
    i:  4.0  l_i:  4.0   p_i:  10.0    aI_i:  26.0      sol_a_i:  26.0  sol_g_i:  0.0    d_i:  49.0    sol_taoi:  26.0    sol_deltai:  46.0  sol_deltai - sol_taoi:  20.0  sol_taoP:  26.0  sol_deltaP:  30.0    sol_deltaP - sol_taoP:  4.0  cI_i:  5255330.0    sol_c_i:  5255330.0    sol_gp_i:  0.0  total work:  5272880.0    wasted work:  0.06656703736857278
    i:  5.0  l_i:  4.0   p_i:  6.0   aI_i:  41.0      sol_a_i:  41.0  sol_g_i:  0.0    d_i:  60.0    sol_taoi:  41.0    sol_deltai:  51.0  sol_deltai - sol_taoi:  10.0  sol_taoP:  43.0    sol_deltaP:  46.0    sol_deltaP - sol_taoP:  3.0  cI_i:  2569319.0    sol_c_i:  2569319.0    sol_gp_i:  0.0  total work:  2636440.0    wasted work:  0.25458952223452835
Time: 103.000000
```