

```
1 "E:\ █████\3 █████\1 █████\1 █████\1_████_████\1_LW_████2\6 █████\2 python code\01_My_Python_Code\Scripts\python.
   exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=client --port=3420
2
3 import sys; print('Python %s on %s' % (sys.version, sys.platform))
4 sys.path.extend(['E:\1 █████\3 █████\1 █████\1_████_████\1_LW_████2\6 █████\2 python code\
   01_My_Python_Code', 'E:\1 █████\3 █████\1 █████\1_████_████\1_LW_████2\6 █████\2 python code\
   01_My_Python_Code'])
5
6 PyDev console: starting.
7
8 Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
9 >>> runfile('E:\1 █████\3 █████\1 █████\1_████_████\1_LW_████2\6 █████\2 python code\01_My_Python_Code\
   main_BACASP_official_gurobi.py', wdir='E:\1 █████\3 █████\1 █████\1_████_████\1_LW_████2\6 █████\2 python
   code\01_My_Python_Code')
10 Backend TkAgg is interactive backend. Turning interactive mode on.
11 Start.....
12
13 This is the R_6_4_standerd_test.xlsx optimization results solved by Gurobi
14
15 Set parameter TimeLimit to value 1200
16 Set parameter MIPGap to value 0.005
17
18
19
20 Problem status = 2 , is Optimal
21
22 Problem has 2 objectives
23 Gurobi found 6 solutions
24 Solution 0 :
25 Obj 0 = 4.0
26 Obj 1 = 3.0
27 Solution 1 :
28 Obj 0 = 4.0
29 Obj 1 = 4.0
30 Solution 2 :
31 Obj 0 = 5.0
32 Obj 1 = 5.0
33 Solution 3 :
34 Obj 0 = 7.0
35 Obj 1 = 11.0
36 Solution 4 :
37 Obj 0 = 8.0
38 Obj 1 = 11.0
39 Solution 5 :
40 Obj 0 = 9.0
41 Obj 1 = 10.0
42
43
44
45 Final solution:
46 Obj0 = 3.0
47 Obj1 = 3.0
48 Total movement of crane: 0.0
49 Total duration time in berth position: 15.0
50 Total index of q during berthing: 343.0
51
52 Specific arrangement:
53 V_id: 0 li: 3.0 xi: 1.5 bow of i: 0.0 tail of i: 3.0 gama_i0: 1.0 gama_i1: 4.0 duration_time_i: 3.0 demand_i: 160 work load_i: 160.0
54 V_id: 1 li: 8.0 xi: 7.5 bow of i: 3.5 tail of i: 11.5 gama_i0: 2.0 gama_i1: 4.0 duration_time_i: 2.0 demand_i: 160 work load_i: 160.0
55 V_id: 2 li: 9.0 xi: 20.5 bow of i: 16.0 tail of i: 25.0 gama_i0: 0.0 gama_i1: 3.0 duration_time_i: 3.0 demand_i: 120 work load_i: 120.0
56 V_id: 3 li: 8.0 xi: 4.0 bow of i: 0.0 tail of i: 8.0 gama_i0: -0.0 gama_i1: 1.0 duration_time_i: 1.0 demand_i: 160 work load_i: 160.0
57 V_id: 4 li: 3.0 xi: 14.5 bow of i: 13.0 tail of i: 16.0 gama_i0: 0.0 gama_i1: 4.0 duration_time_i: 4.0 demand_i: 80 work load_i: 80.0
58 V_id: 5 li: 5.0 xi: 10.5 bow of i: 8.0 tail of i: 13.0 gama_i0: -0.0 gama_i1: 2.0 duration_time_i: 2.0 demand_i: 120 work load_i: 120.0
59
60
61 Finished and CPU Time: 627.000000
62
63
64
65
```