


```
80     second level: [1. 0.]
81     third level: [4. 8.] ]
82     The No. 5 iteration is finished!
83
84
85 -----
86 The iteration is terminated and then visulize the solution:
87 solution chromosome =
88     first level: [ [2. 4.09]
89     second level: [1. 0.]
90     third level: [4. 8.] ]
91 Objective function values and some other indicators:
92     Obj0 = 2.00          Obj1 = 5.06          Obj0 + Obj1 = 7.06
93     Total movement of crane: 4.06
94     Total waiting time in berth position: 1.00
95     Total index of q during berthing: 27.00
96 Specific arrangement for each vessel:
97     V_id: 0             li: 4.0             xi: 2.0             bow of i: 0.0             tail of i: 4.0             gama_i0: 1.0             gama_i1: 3.0
98         duration_time_i: 2.0             demand_i: 160.0             work load_i: 160.0             work load gap_i: 0
99     V_id: 1             li: 8.0             xi: 4.1             bow of i: 0.1             tail of i: 8.1             gama_i0: 0.0             gama_i1: 1.0
100         duration_time_i: 1.0             demand_i: 120.0             work load_i: 120.0             work load gap_i: 0
101
102 Algorithm finished and the total CPU time: 99 s
101 End
102
```