



```
80     second level: [1. 2.]
81     third level: [2. 4.]
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. 8.]
89     second level: [1. 2.]
90     third level: [2. 4.] ]
91 Objective function values and some other indicators:
92     Obj0 = 4.00          Obj1 = 3.00          Obj0 + Obj1 = 7.00
93     Total movement of crane: 0.00
94     Total waiting time in berth position: 3.00
95     Total index of q during berthing: 35.00
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: 5.0
98                     duration_time_i: 4.0             demand_i: 160.0             work load_i: 160.0             work load gap_i: 0
99     V_id: 1             li: 8.0             xi: 8.0             bow of i: 4.0             tail of i: 12.0             gama_i0: 2.0             gama_i1: 4.0
100                     duration_time_i: 2.0             demand_i: 120.0             work load_i: 120.0             work load gap_i: 0
101
102 Algorithm finished and the total CPU time: 47 s
101 End
102
```