



```

80     second level: [2. 0.]
81     third level: [4. 3.] ]
82     The No. 5 iteration is finished!
83
84
85 -----
86 The iteration is terminated and then visualize the solution:
87     solution chromosome =
88     first level: [ [8. 4.]
89     second level: [2. 0.]
90     third level: [4. 3.] ]
91 Objective function values and some other indicators:
92     Obj0 = 3.00          Obj1 = 2.00          Obj0 + Obj1 = 5.00
93     Total movement of crane: 0.00
94     Total waiting time in berth position: 2.00
95     Total index of q during berthing: 66.00
96 Specific arrangement for each vessel:
97     V_id: 0             li: 4.0             xi: 8.0             bow of i: 6.0             tail of i: 10.0             gama_i0: 2.0             gama_i1: 4.0
98         duration_time_i: 2.0             demand_i: 160.0             work load_i: 160.0             work load gap_i: 0
99         li: 8.0             xi: 4.0             bow of i: 0.0             tail of i: 8.0             gama_i0: 0.0             gama_i1: 2.0
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: 57 s
101 End
102

```