


```

80     second level: [4. 1.]
81     third level: [4. 2.] ]
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: [ [2.31 6.51]
89     second level: [4. 1.]
90     third level: [4. 2.] ]
91 Objective function values and some other indicators:
92     Obj0 = 5.00          Obj1 = 27.74          Obj0 + Obj1 = 32.74
93     Total movement of crane: 22.74
94     Total waiting time in berth position: 5.00
95     Total index of q during berthing: 27.00
96 Specific arrangement for each vessel:
97     V_id: 0             li: 4.0             xi: 2.3             bow of i: 0.3             tail of i: 4.3             gama_i0: 4.0             gama_i1: 6.0
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: 6.5             bow of i: 2.5             tail of i: 10.5             gama_i0: 1.0             gama_i1: 4.0
100                     duration_time_i: 3.0             demand_i: 120.0             work load_i: 120.0             work load gap_i: 0
101
102 Algorithm finished and the total CPU time: 56 s
101 End
102

```