



```

80   third level: [4, 2, 2, 2, 3, 2, 2, 2, 2, 3, 6, 3, 2, 4, 5, 3, 2, 3.] ]
81   Objective function values and some other indicators:
82   Obj0 = 33.00      Obj1 = 253.00      Obj0 + Obj1 = 286.00
83   Total movement of crane: 16.00
84   Total waiting time in berth position: 237.00
85   Total index of q during berthing: 509.00
86   Specific arrangement for each vessel:
87   V_id: 0          li: 5.0          xi: 2.5          bow of i: 0.0          tail of i: 5.0          gama_i0: 2.0          gama_i1: 4.0
      duration_time_i: 2.0          demand_i: 120.0          work load_i: 120.0          work load gap_i: 0
88   V_id: 1          li: 4.0          xi: 7.0          bow of i: 5.0          tail of i: 9.0          gama_i0: 3.0          gama_i1: 7.0
      duration_time_i: 4.0          demand_i: 160.0          work load_i: 160.0          work load gap_i: 0
89   V_id: 2          li: 8.0          xi: 13.0         bow of i: 9.0          tail of i: 17.0         gama_i0: 4.0          gama_i1: 8
.0      duration_time_i: 4.0          demand_i: 140.0          work load_i: 140.0          work load gap_i: 0
90   V_id: 3          li: 8.0          xi: 21.0         bow of i: 17.0         tail of i: 25.0         gama_i0: 5.0          gama_i1: 8
.0      duration_time_i: 3.0          demand_i: 120.0          work load_i: 120.0          work load gap_i: 0
91   V_id: 4          li: 3.0          xi: 1.5          bow of i: 0.0          tail of i: 3.0          gama_i0: 14.0         gama_i1: 17.0
      duration_time_i: 3.0          demand_i: 160.0          work load_i: 160.0          work load gap_i: 0
92   V_id: 5          li: 6.0          xi: 27.0         bow of i: 24.0         tail of i: 30.0         gama_i0: 8.0          gama_i1:
11.0      duration_time_i: 3.0          demand_i: 120.0          work load_i: 120.0          work load gap_i: 0
93   V_id: 6          li: 4.0          xi: 2.0          bow of i: 0.0          tail of i: 4.0          gama_i0: 4.0          gama_i1: 8.0
      duration_time_i: 4.0          demand_i: 160.0          work load_i: 160.0          work load gap_i: 0
94   V_id: 7          li: 7.0          xi: 3.5          bow of i: 0.0          tail of i: 7.0          gama_i0: 8.0          gama_i1: 11.0
      duration_time_i: 3.0          demand_i: 120.0          work load_i: 120.0          work load gap_i: 0
95   V_id: 8          li: 4.0          xi: 2.0          bow of i: 0.0          tail of i: 4.0          gama_i0: 11.0         gama_i1: 14.0
      duration_time_i: 3.0          demand_i: 120.0          work load_i: 120.0          work load gap_i: 0
96   V_id: 9          li: 3.0          xi: 26.5         bow of i: 25.0         tail of i: 28.0         gama_i0: 0.0          gama_i1: 2
.0      duration_time_i: 2.0          demand_i: 80.0          work load_i: 80.0          work load gap_i: 0
97   V_id: 10         li: 3.0          xi: 1.5          bow of i: 0.0          tail of i: 3.0          gama_i0: 17.0         gama_i1: 20.
0      duration_time_i: 3.0          demand_i: 140.0          work load_i: 140.0          work load gap_i: 0
98   V_id: 11         li: 6.0          xi: 3.0          bow of i: 0.0          tail of i: 6.0          gama_i0: 1.0          gama_i1: 2.0
      duration_time_i: 1.0          demand_i: 100.0          work load_i: 100.0          work load gap_i: 0
99   V_id: 12         li: 4.0          xi: 2.0          bow of i: 0.0          tail of i: 4.0          gama_i0: 20.0         gama_i1: 23.
0      duration_time_i: 3.0          demand_i: 140.0          work load_i: 140.0          work load gap_i: 0
100  V_id: 13         li: 3.0          xi: 1.5          bow of i: 0.0          tail of i: 3.0          gama_i0: 23.0         gama_i1: 26.
0      duration_time_i: 3.0          demand_i: 100.0          work load_i: 100.0          work load gap_i: 0
101  V_id: 14         li: 8.0          xi: 4.0          bow of i: 0.0          tail of i: 8.0          gama_i0: 26.0         gama_i1: 28.
0      duration_time_i: 2.0          demand_i: 160.0          work load_i: 160.0          work load gap_i: 0
102  V_id: 15         li: 6.0          xi: 3.0          bow of i: 0.0          tail of i: 6.0          gama_i0: 28.0         gama_i1: 30.
0      duration_time_i: 2.0          demand_i: 140.0          work load_i: 140.0          work load gap_i: 0
103  V_id: 16         li: 6.0          xi: 3.0          bow of i: 0.0          tail of i: 6.0          gama_i0: 0.0          gama_i1: 1.0
      duration_time_i: 1.0          demand_i: 60.0          work load_i: 60.0          work load gap_i: 0
104  V_id: 17         li: 5.0          xi: 2.5          bow of i: 0.0          tail of i: 5.0          gama_i0: 30.0         gama_i1: 33.
0      duration_time_i: 3.0          demand_i: 100.0          work load_i: 100.0          work load gap_i: 0
105  V_id: 18         li: 8.0          xi: 4.0          bow of i: 0.0          tail of i: 8.0          gama_i0: 33.0         gama_i1: 34.
0      duration_time_i: 1.0          demand_i: 60.0          work load_i: 60.0          work load gap_i: 0
106
107 Algorithm finished and the total CPU time: 1765 s
108 End
109

```