


```
81 Solutions:
82   The total pi = 60.0
83   The total duration time in berth stage = 100.0
84   The total duration time in quay crane scheduling stage = 25.0
85   The total departure time in berth stage= 244.0
86   The total departure time in quay crane scheduling stage = 169.0
87   The total wasted crane work hour according QC0= 2.6195892946549133
88   The last depature time in quay crane scheduling stage = 62.0
89
90 The specific solution are as follows:
91   Vessel i: 0:   li: 6,       pi: 8-14,       ai-di: 15-42,       taoi-deltai: 15-40,       periodi: 25,       taoPi_SP-deltaPi_SP
: 15-20,       periodPi: 5,       c_i: 6352058,       dowork: 6591100,       fa_i: 3
92   Vessel i: 1:   li: 4,       pi: 14-18,      ai-di: 3-17,       taoi-deltai: 3-15,       periodi: 12,       taoPi_SP-deltaPi_SP
: 3-5,       periodPi: 2,       c_i: 2945501,       dowork: 3163728,       fa_i: 4
93   Vessel i: 2:   li: 5,       pi: 14-19,      ai-di: 26-45,       taoi-deltai: 26-43,       periodi: 17,       taoPi_SP-
deltaPi_SP: 26-30,       periodPi: 4,       c_i: 4411870,       dowork: 4481948,       fa_i: 3
94   Vessel i: 3:   li: 4,       pi: 10-14,      ai-di: 45-73,       taoi-deltai: 45-68,       periodi: 23,       taoPi_SP-
deltaPi_SP: 45-52,       periodPi: 7,       c_i: 5858947,       dowork: 5931990,       fa_i: 2
95   Vessel i: 4:   li: 5,       pi: 14-19,      ai-di: 55-81,       taoi-deltai: 55-78,       periodi: 23,       taoPi_SP-
deltaPi_SP: 55-62,       periodPi: 7,       c_i: 5973563,       dowork: 6063812,       fa_i: 2
96 TimeSolveModel: 22.000000
97
98 TimeAll: 25.000000
99
100
```