

Ship Loading Positions

1	7	13	19	25	31	37	43	49	55
2	8	14	20	26	32	38	44	50	56
3	9	15	21	27	33	39	45	51	57
4	10	16	22	28	34	40	46	52	58
5	11	17	23	29	35	41	47	53	59
6	12	18	24	30	36	42	48	54	60
61	67	73	79	85	91	97	103	109	115
62	68	74	80	86	92	98	104	110	116
63	69	75	81	87	93	99	105	111	117
64	70	76	82	88	94	100	106	112	118
65	71	77	83	89	95	101	107	113	119
66	72	78	84	90	96	102	108	114	120

Index of Container in each Loading Position (Empty)

32	36	40	64	76	78	107	29	116	118
22	44	34	31	91	36	112	97	1	35
59	40	82	86	5	19	41	77	59	86
4	30	27	45	84	65	95	90	111	13
32	42	15	54	100	101	104	102	67	45
2	18	78	98	73	7	96	110	49	85
99	52	105	109	87	79	51	103	106	94
33	119	23	86	120	60	98	57	9	21
14	39	53	61	117	47	3	69	69	74
8	6	10	114	81	39	83	24	72	62
16	108	25	80	48	113	11	95	66	63
71	56	25	118	12	89	43	76	17	37

Total Weight in each Loading Position

17.65638893	22.06058262	68.90262337	122.3618105	446.444829	528.3760847	227.3213717	190.3787919	138.4002185	125.7827547
15.00225232	18.51388288	53.9260131	109.4023709	393.1443046	293.3903789	205.4189063	198.0163014	124.9832292	117.9993684
1.070170112	1.486315787	41.57651579	109.4281621	132.249898	165.6384551	156.950575	380.890412	217.5072829	184.5765899
5.229328413	4.241922979	21.98017743	253.3849086	297.2449964	1443.1072681	197.8414893	234.6760702	87.21414895	111.7620314
3.195536383	3.305737162	20.85572894	97.29810552	429.6519562	238.1214511	146.2149638	129.3090283	81.21863844	71.79480892
8.000316779	15.70148883	49.51185721	261.3470379	632.61686	261.2692007	132.6537967	341.3632279	52.81891216	414.0740993

ID Number 12345678

----- Solution -----

Ship Loading Positions	Index of Container at Posn
1	92
2	22
3	59
4	4
5	32
6	2
7	25
8	44
9	40
10	30
11	42
12	18
13	20
14	34
15	82
16	27
17	15
18	18
19	64
20	31
21	68
22	46
23	54
24	98
25	70
26	91
27	5
28	84
29	109
30	73
31	75
32	36
33	19
34	65
35	101
36	7
37	107
38	112
39	41
40	55
41	104
42	96
43	29
44	95
45	77
46	90
47	102
48	110
49	116
50	1
51	93
52	111
53	67
54	49
55	115
56	35
57	80
58	13
59	85
60	85
61	99
62	33
63	14
64	8
65	16
66	71
67	52
68	119
69	38
70	6
71	108
72	56
73	105
74	23
75	53
76	10
77	28
78	109
79	109
80	88
81	61
82	114
83	86
84	118
85	87
86	120
87	117
88	81
89	48
90	12
91	79
92	50
93	47
94	39
95	113
96	89
97	51
98	58
99	3
100	83
101	11
102	43
103	103
104	51
105	60
106	24
107	95
108	7
109	106
110	9
111	69
112	7
113	66
114	17
115	94
116	48
117	74
118	62
119	63
120	37

--- Solution Quality ---

ProbB	-1.3E-06
dX=	5.08E-08
dY=	1.58E-08
Obj Fm=	1.58E-08
- Number of Containers -	120
- Number of Positions -	120

--- Container Data ---

Container Index	Container Weight
0	0
1	87.51651
2	0.87015
3	61.56968
4	0.745666
5	80.59673
6	2.884038
7	81.78996
8	5.483662
9	37.46672
10	12.91584
11	67.36751
12	248.008
13	79.73182
14	0.717683
15	10.34096
16	2.424872
17	27.63396
18	5.244997
19	99.16572
20	7.49868
21	32.51991
22	0.169823
23	50.00625
24	182.9773
25	38.50207
26	2.625794
27	8.972342
28	10.51477
29	99.98858
30	1.357535
31	18.70266
32	0.770666
33	14.8964
34	3.919351
35	85.47946
36	203.2026
37	65.60781
38	0.508907
39	70.31611
40	0.959409
41	95.3819
42	2.358016
43	53.30152
44	5.388177
45	32.04686
46	19.17551
47	66.46074
48	358.62
49	25.18535
50	90.18779
51	80.83375
52	19.43479
53	33.10859
54	14.33645
55	55.72874
56	10.45649
57	82.91769
58	71.53949
59	0.352468
60	66.0674
61	87.56534
62	32.05111
63	39.71785
64	15.70216
65	74.82116
66	36.18721
67	45.03143
68	21.86285
69	46.50483
70	95.55847
71	7.130167
72	37.90606
73	284.6089
74	79.96338
75	39.01053
76	48.20882
77	285.6233
78	11.00978
79	137.3588
80	84.59321
81	209.7193
82	8.407922
83	141.9128
84	87.52544
85	318.4663
86	82.96165
87	349.8864
88	90.69971
89	179.4792
90	51.46878
91	299.6533
92	1.662801
93	171.0025
94	39.84121
95	51.53105
96	79.35228
97	115.0886
98	22.68183
99	15.95357
100	71.03162
101	163.9521
102	78.37796
103	90.39015
104	78.86745
105	61.40394
106	43.96271
107	146.6876
108	7.007721
109	106.6597
110	293.1532
111	59.30805
112	133.8794
113	74.16934
114	234.2094
115	85.94194
116	94.43751
117	51.60815
118	238.6652
119	13.11571
120	83.49102

----- Workings -----

Objective Calculation	Position	Position	Workings
1.662801	-33	-33	7.5
0.105823	-33	-33	4.5
0.352468	-33	-33	1.5
0.745666	-33	-33	-1.5
0.770666	-33	-33	-4.5
0.87015	-33	-33	-7.5
2.625794	-27	-27	7.5
5.388177	-27	-27	4.5
0.959409	-27	-27	1.5
1.357535	-27	-27	-1.5
2.358016	-27	-27	-4.5
5.244997	-27	-27	-7.5
7.49868	-21	-21	7.5
3.919351	-21	-21	4.5
8.467922	-21	-21	1.5
8.972342	-21	-21	-1.5
10.34096	-21	-21	-4.5
11.00978	-21	-21	-7.5
15.70216	-15	-15	7.5
18.70266	-15	-15	4.5
21.86285	-15	-15	1.5
19.17551	-15	-15	-1.5
14.33645	-15	-15	-4.5
22.68183	-15	-15	-7.5
96.55847	-9	-9	7.5
299.6533	-9	-9	4.5
80.59673	-9	-9	1.5
87.52544	-9	-9	-1.5
71.03162	-9	-9	-4.5
284.6089	-9	-9	-7.5
391.0193	-3	-3	7.5
203.2026	-3	-3	4.5
99.16572	-3	-3	1.5
74.82116	-3	-3	-1.5
163.9521	-3	-3	-4.5
81.78999	-3	-3	-7.5
146.6876	3	3	7.5
133.8794	3	3	4.5
95.3819	3	3	1.5
55.72874	3	3	-1.5
78.86745	3	3	-4.5
79.35228	3	3	-7.5
99.98858	9	9	7.5
115.0886	9	9	4.5
285.6233	9	9	1.5
51.46878	9	9	-1.5
78.37796	9	9	-4.5
293.1532	9	9	-7.5
94.43751	15	15	7.5
87.51651	15	15	4.5
171.0025	15	15	1.5
69.30805	15	15	-1.5
45.03143	15	15	-4.5
25.18535	15	15	-7.5
55.94194	21	21	7.5
85.47946	21	21	4.5
84.59321	21	21	1.5
79.73182	21	21	-1.5
32.04686	21	21	-4.5
318.4663	21	21	-7.5
15.95357	-33	-33	7.5
14.8964	-33	-33	4.5
0.717683	-33	-33	1.5
5.483662	-33	-33	-1.5
2.424872	-33	-33	-4.5
7.130167	-33	-33	-7.5
19.43479	-27	-27	7.5
13.11571	-27	-27	4.5
0.508907	-27	-27	1.5
2.884038	-27	-27	-1.5
7.007721	-27	-27	-4.5
10.45649	-27	-27	-7.5
61.40394	-21	-21	7.5
50.00625	-21	-21	4.5
33.10859	-21	-21	1.5
12.91584	-21	-21	-1.5
10.51477	-21	-21	-4.5
38.50207	-21	-21	-7.5
106.6597	-15	-15	7.5
90.69971	-15	-15	4.5
87.56534	-15	-15	1.5
234.2094	-15	-15	-1.5
82.96165	-15	-15	-4.5
238.6652	-15	-15	-7.5
349.8864	-9	-9	7.5
93.49102	-9	-9	4.5
51.60815	-9	-9	1.5
209.7193	-9	-9	-1.5
358.62	-9	-9	-4.5
248.008	-9	-9	-7.5
137.3588	-3	-3	7.5
90.18779	-3	-3	4.5
66.46074	-3	-3	1.5
70.31611	-3	-3	-1.5
74.16934	-3	-3	-4.5
179.4792	-3	-3	-7.5
80.83375	3	3	7.5
71.53949	3	3	4.5
61.58868	3	3	1.5
41.9128	3	3	-1.5
67.36751	3	3	-4.5
53.30152	3	3	-7.5
90.39015	9	9	7.5
82.91769	9	9	4.5
95.0674	9	9	1.5
182.9773	9	9	-1.5
15.513105	9	9	-4.5
48.20882	9	9	-7.5
43.96271	15	15	7.5
37.46672	15	15	4.5
45.50483	15	15	1.5
37.90506	15	15	-1.5
36.18721	15	15	-4.5
37.83356	15	15	-7.5
39.81711	21	21	7.5
32.51991	21	21	4.5
79.98338	21	21	1.5
32.05111	21	21	-1.5
39.81711	21	21	-4.5
50.6781	21	21	-7.5