Plan Validation Report

VAL

May 3, 2017

1 Domain and Problem

Domain: rovers
Problem: rovers_prob

2 Plan: solution

2.1 Plan

Plan size: 119

Time	Action
0:	(move r0 p_04_06 p_05_06) [1]
0:	(move r1 p_04_07 p_04_08) [1]
1.001:	(move r0 p_05_06 p_05_05) [1]
1.001:	(move r1 p_04_08 p_03_08) [1]
2.002:	(move r0 p_05_05 p_06_05) [1]
2.002:	(move r1 p_03_08 p_02_08) [1]
3.003:	(move r1 p_02_08 p_02_09) [1]
3.003:	(move r0 p_06_05 p_06_04) [1]
4.004:	(move r1 p_02_09 p_02_10) [1]
4.004:	(move r0 p_06_04 p_06_03) [1]
5.005:	(move r1 p_02_10 p_01_10) [1]
5.005:	(move r0 p_06_03 p_06_04) [1]
6.006:	(move r1 p_01_10 p_01_11) [1]
6.006:	(move r0 p_06_04 p_06_05) [1]
7.007:	(move r1 p_01_11 p_01_12) [1]
7.007:	(move r0 p_06_05 p_06_06) [1]
8.008:	(move r0 p_06_06 p_06_07) [1]

8.008: (move r1 p_01_12 p_02_12) [1]
9.009: (push r1 b p_02_12 p_02_11 p_02_10) [1]
9.009: (move r0 p_06_07 p_06_06) [1]
10.01: (push r1 b p_02_11 p_02_10 p_02_09) [1]
10.01: (move r0 p_06_06 p_06_05) [1]
11.011: (push r1 b p_02_10 p_02_09 p_02_08) [1]
11.011: (move r0 p_06_05 p_06_04) [1]
12.012: (push r1 b p_02_09 p_02_08 p_02_07) [1]
12.012: (move r0 p_06_04 p_06_03) [1]
13.013: (push r1 b p_02_08 p_02_07 p_02_06) [1]
13.013: (move r0 p_06_03 p_05_03) [1]
14.014: (move r1 p_02_07 p_01_07) [1]
14.014: (move r0 p_05_03 p_05_02) [1]
15.015: (move r0 p_05_02 p_05_01) [1]
15.015: (move r1 p_01_07 p_01_06) [1]
16.016: (push r1 b p_01_06 p_02_06 p_03_06) [1]
16.016: (move r0 p_05_01 p_06_01) [1]
17.017: (push r1 b p_02_06 p_03_06 p_04_06) [1]
17.017: (push r0 c p_06_01 p_06_02 p_06_03) [1]
18.018: (push r1 b p_03_06 p_04_06 p_05_06) [1]
18.018: (push r0 c p_06_02 p_06_03 p_06_04) [1]
19.019: (push r1 b p_04_06 p_05_06 p_06_06) [1]
19.019: (push r0 c p_06_03 p_06_04 p_06_05) [1]
20.02: (push r1 b p_05_06 p_06_06 p_07_06) [1]
21.021: (push r1 b p_06_06 p_07_06 p_08_06) [1]
22.022: (push r0 c p_06_04 p_06_05 p_06_06) [1]
23.023: (move r0 p_06_05 p_05_05) [1]
23.023: (push r1 c p_07_06 p_06_06 p_05_06) [1]
24.024: (move r1 p_06_06 p_06_07) [1]
24.024: (move r0 p_05_05 p_06_05) [1]
25.025: (move r1 p_06_07 p_05_07) [1]
25.025: (move r0 p_06_05 p_05_05) [1]
26.026: (move r1 p_05_07 p_04_07) [1]
27.027: (push r0 c p_05_05 p_05_06 p_05_07) [1]
28.028: (move r0 p_05_06 p_04_06) [1]
28.028: (push r1 c p_04_07 p_05_07 p_06_07) [1]
29.029: (push r1 c p_05_07 p_06_07 p_07_07) [1]
29.029: (move r0 p_04_06 p_03_06) [1]
30.03: (move r0 p_03_06 p_02_06) [1]
30.03: (move r1 p_06_07 p_06_08) [1]
31.031: (move r0 p_02_06 p_02_05) [1]

31.031: (move r1 p_06_08 p_06_07) [1]
32.032: (move r0 p_02_05 p_02_04) [1]
32.032: (push r1 c p_06_07 p_07_07 p_08_07) [1]
33.033: (move r0 p_02_04 p_02_03) [1]
33.033: (move r1 p_07_07 p_06_07) [1]
34.034: (move r0 p_02_03 p_01_03) [1]
34.034: (move r1 p_06_07 p_05_07) [1]
35.035: (move r0 p_01_03 p_02_03) [1]
35.035: (move r1 p_05_07 p_04_07) [1]
36.036: (move r0 p_02_03 p_02_04) [1]
36.036: (move r1 p_04_07 p_03_07) [1]
37.037: (move r0 p_02_04 p_02_05) [1]
37.037: (move r1 p_03_07 p_02_07) [1]
38.038: (move r0 p_02_05 p_03_05) [1]
38.038: (move r1 p_02_07 p_02_06) [1]
39.039: (move r1 p_02_06 p_02_05) [1]
39.039: (move r0 p_03_05 p_04_05) [1]
40.04: (move r0 p_04_05 p_05_05) [1]
40.04: (move r1 p_02_05 p_02_04) [1]
41.041: (move r1 p_02_04 p_02_03) [1]
41.041: (move r0 p_05_05 p_04_05) [1]
42.042: (move r1 p_02_03 p_01_03) [1]
42.042: (move r0 p_04_05 p_03_05) [1]
43.043: (move r1 p_01_03 p_01_02) [1]
43.043: (move r0 p_03_05 p_02_05) [1]
44.044: (move r1 p_01_02 p_01_01) [1]
44.044: (move r0 p_02_05 p_01_05) [1]
45.045: (move r1 p_01_01 p_02_01) [1]
46.046: (push r1 a p_02_01 p_02_02 p_02_03) [1]
47.047: (push r1 a p_02_02 p_02_03 p_02_04) [1]
48.048: (push r1 a p_02_03 p_02_04 p_02_05) [1]
49.049: (push r0 a p_01_05 p_02_05 p_03_05) [1]
50.05: (push r0 a p_02_05 p_03_05 p_04_05) [1]
51.051: (push r0 a p_03_05 p_04_05 p_05_05) [1]
51.051: (move r1 p_02_04 p_02_05) [1]
52.052: (push r0 a p_04_05 p_05_05 p_06_05) [1]
52.052: (move r1 p_02_05 p_03_05) [1]
53.053: (move r0 p_05_05 p_05_06) [1]
53.053: (move r1 p_03_05 p_04_05) [1]
54.054: (move r0 p_05_06 p_05_07) [1]
54.054: (move r1 p_04_05 p_05_05) [1]

55.055: (move r0 p_05_07 p_05_08) [1]
55.055: (push r1 a p_05_05 p_06_05 p_07_05) [1]
56.056: (push r1 a p_06_05 p_07_05 p_08_05) [1]
56.056: (move r0 p_05_08 p_06_08) [1]
57.057: (move r1 p_07_05 p_06_05) [1]
57.057: (move r0 p_06_08 p_06_09) [1]
58.058: (move r0 p_06_09 p_06_10) [1]
58.058: (move r1 p_06_05 p_05_05) [1]
59.059: (move r0 p_06_10 p_05_10) [1]
59.059: (move r1 p_05_05 p_05_06) [1]
60.06: (move r0 p_05_10 p_05_11) [1]
60.06: (move r1 p_05_06 p_05_07) [1]
61.061: (move r0 p_05_11 p_05_12) [1]
61.061: (move r1 p_05_07 p_05_08) [1]
62.062: (move r0 p_05_12 p_06_12) [1]
63.063: (push r0 d p_06_12 p_06_11 p_06_10) [1]
64.064: (push r0 d p_06_11 p_06_10 p_06_09) [1]
65.065: (push r0 d p_06_10 p_06_09 p_06_08) [1]
66.066: (push r1 d p_05_08 p_06_08 p_07_08) [1]
67.067: (push r1 d p_06_08 p_07_08 p_08_08) [1]

2.2 Plan To Validate

Time	**Happening**
0:	(move r1 p_04_07 p_04_08) - *start*
	(move r0 p_04_06 p_05_06) - *start*
1:	(move r1 p_04_07 p_04_08) - *end*
	(move r0 p_04_06 p_05_06) - *end*
1.001:	(move r1 p_04_08 p_03_08) - *start*
	(move r0 p_05_06 p_05_05) - *start*
2.001:	(move r1 p_04_08 p_03_08) - *end*
	(move r0 p_05_06 p_05_05) - *end*
2.002:	(move r1 p_03_08 p_02_08) - *start*
	(move r0 p_05_05 p_06_05) - *start*

3.002: (move r1 p_03_08 p_02_08) - *end*
(move r0 p_05_05 p_06_05) - *end*

3.003: (move r1 p_02_08 p_02_09) - *start*
(move r0 p_06_05 p_06_04) - *start*

4.003: (move r1 p_02_08 p_02_09) - *end*
(move r0 p_06_05 p_06_04) - *end*

4.004: (move r1 p_02_09 p_02_10) - *start*
(move r0 p_06_04 p_06_03) - *start*

5.004: (move r1 p_02_09 p_02_10) - *end*
(move r0 p_06_04 p_06_03) - *end*

5.005: (move r1 p_02_10 p_01_10) - *start*
(move r0 p_06_03 p_06_04) - *start*

6.005: (move r1 p_02_10 p_01_10) - *end*
(move r0 p_06_03 p_06_04) - *end*

6.006: (move r1 p_01_10 p_01_11) - *start*
(move r0 p_06_04 p_06_05) - *start*

7.006: (move r1 p_01_10 p_01_11) - *end*
(move r0 p_06_04 p_06_05) - *end*

7.007: (move r1 p_01_11 p_01_12) - *start*
(move r0 p_06_05 p_06_06) - *start*

8.007: (move r1 p_01_11 p_01_12) - *end*
(move r0 p_06_05 p_06_06) - *end*

8.008: (move r1 p_01_12 p_02_12) - *start*
(move r0 p_06_06 p_06_07) - *start*

9.008: (move r1 p_01_12 p_02_12) - *end*
(move r0 p_06_06 p_06_07) - *end*

9.009: (push r1 b p_02_12 p_02_11 p_02_10) - *start*
(move r0 p_06_07 p_06_06) - *start*

10.009: (push r1 b p_02_12 p_02_11 p_02_10) - *end*
(move r0 p_06_07 p_06_06) - *end*

10.01: (push r1 b p_02_11 p_02_10 p_02_09) - *start*
(move r0 p_06_06 p_06_05) - *start*

11.01: (push r1 b p_02_11 p_02_10 p_02_09) - *end*
(move r0 p_06_06 p_06_05) - *end*

11.011: (push r1 b p_02_10 p_02_09 p_02_08) - *start*
(move r0 p_06_05 p_06_04) - *start*

12.011: (push r1 b p_02_10 p_02_09 p_02_08) - *end*
(move r0 p_06_05 p_06_04) - *end*

12.012: (push r1 b p_02_09 p_02_08 p_02_07) - *start*
(move r0 p_06_04 p_06_03) - *start*

13.012: (push r1 b p_02_09 p_02_08 p_02_07) - *end*
(move r0 p_06_04 p_06_03) - *end*

13.013: (push r1 b p_02_08 p_02_07 p_02_06) - *start*
(move r0 p_06_03 p_05_03) - *start*

14.013: (push r1 b p_02_08 p_02_07 p_02_06) - *end*
(move r0 p_06_03 p_05_03) - *end*

14.014: (move r1 p_02_07 p_01_07) - *start*
(move r0 p_05_03 p_05_02) - *start*

15.014: (move r1 p_02_07 p_01_07) - *end*
(move r0 p_05_03 p_05_02) - *end*

15.015: (move r1 p_01_07 p_01_06) - *start*
(move r0 p_05_02 p_05_01) - *start*

16.015: (move r1 p_01_07 p_01_06) - *end*
(move r0 p_05_02 p_05_01) - *end*

16.016: (push r1 b p_01_06 p_02_06 p_03_06) - *start*

(move r0 p_05_01 p_06_01) - *start*

17.016: (push r1 b p_01_06 p_02_06 p_03_06) - *end*
(move r0 p_05_01 p_06_01) - *end*

17.017: (push r1 b p_02_06 p_03_06 p_04_06) - *start*
(push r0 c p_06_01 p_06_02 p_06_03) - *start*

18.017: (push r1 b p_02_06 p_03_06 p_04_06) - *end*
(push r0 c p_06_01 p_06_02 p_06_03) - *end*

18.018: (push r1 b p_03_06 p_04_06 p_05_06) - *start*
(push r0 c p_06_02 p_06_03 p_06_04) - *start*

19.018: (push r1 b p_03_06 p_04_06 p_05_06) - *end*
(push r0 c p_06_02 p_06_03 p_06_04) - *end*

19.019: (push r1 b p_04_06 p_05_06 p_06_06) - *start*
(push r0 c p_06_03 p_06_04 p_06_05) - *start*

20.019: (push r1 b p_04_06 p_05_06 p_06_06) - *end*
(push r0 c p_06_03 p_06_04 p_06_05) - *end*

20.02: (push r1 b p_05_06 p_06_06 p_07_06) - *start*

21.02: (push r1 b p_05_06 p_06_06 p_07_06) - *end*

21.021: (push r1 b p_06_06 p_07_06 p_08_06) - *start*

22.021: (push r1 b p_06_06 p_07_06 p_08_06) - *end*

22.022: (push r0 c p_06_04 p_06_05 p_06_06) - *start*

23.022: (push r0 c p_06_04 p_06_05 p_06_06) - *end*

23.023: (move r0 p_06_05 p_05_05) - *start*
(push r1 c p_07_06 p_06_06 p_05_06) - *start*

24.023: (move r0 p_06_05 p_05_05) - *end*
(push r1 c p_07_06 p_06_06 p_05_06) - *end*

24.024: (move r1 p_06_06 p_06_07) - *start*
(move r0 p_05_05 p_06_05) - *start*

25.024: (move r1 p_06_06 p_06_07) - *end*
(move r0 p_05_05 p_06_05) - *end*

25.025: (move r1 p_06_07 p_05_07) - *start*
(move r0 p_06_05 p_05_05) - *start*

26.025: (move r1 p_06_07 p_05_07) - *end*
(move r0 p_06_05 p_05_05) - *end*

26.026: (move r1 p_05_07 p_04_07) - *start*

27.026: (move r1 p_05_07 p_04_07) - *end*

27.027: (push r0 c p_05_05 p_05_06 p_05_07) - *start*

28.027: (push r0 c p_05_05 p_05_06 p_05_07) - *end*

28.028: (move r0 p_05_06 p_04_06) - *start*
(push r1 c p_04_07 p_05_07 p_06_07) - *start*

29.028: (move r0 p_05_06 p_04_06) - *end*
(push r1 c p_04_07 p_05_07 p_06_07) - *end*

29.029: (push r1 c p_05_07 p_06_07 p_07_07) - *start*
(move r0 p_04_06 p_03_06) - *start*

30.029: (push r1 c p_05_07 p_06_07 p_07_07) - *end*
(move r0 p_04_06 p_03_06) - *end*

30.03: (move r0 p_03_06 p_02_06) - *start*
(move r1 p_06_07 p_06_08) - *start*

31.03: (move r0 p_03_06 p_02_06) - *end*
(move r1 p_06_07 p_06_08) - *end*

31.031: (move r0 p_02_06 p_02_05) - *start*
(move r1 p_06_08 p_06_07) - *start*

32.031: (move r0 p_02_06 p_02_05) - *end*
(move r1 p_06_08 p_06_07) - *end*

32.032: (push r1 c p_06_07 p_07_07 p_08_07) - *start*
(move r0 p_02_05 p_02_04) - *start*

33.032: (push r1 c p_06_07 p_07_07 p_08_07) - *end*
(move r0 p_02_05 p_02_04) - *end*

33.033: (move r0 p_02_04 p_02_03) - *start*
(move r1 p_07_07 p_06_07) - *start*

34.033: (move r0 p_02_04 p_02_03) - *end*
(move r1 p_07_07 p_06_07) - *end*

34.034: (move r0 p_02_03 p_01_03) - *start*
(move r1 p_06_07 p_05_07) - *start*

35.034: (move r0 p_02_03 p_01_03) - *end*
(move r1 p_06_07 p_05_07) - *end*

35.035: (move r0 p_01_03 p_02_03) - *start*
(move r1 p_05_07 p_04_07) - *start*

36.035: (move r0 p_01_03 p_02_03) - *end*
(move r1 p_05_07 p_04_07) - *end*

36.036: (move r0 p_02_03 p_02_04) - *start*
(move r1 p_04_07 p_03_07) - *start*

37.036: (move r0 p_02_03 p_02_04) - *end*
(move r1 p_04_07 p_03_07) - *end*

37.037: (move r0 p_02_04 p_02_05) - *start*
(move r1 p_03_07 p_02_07) - *start*

38.037: (move r0 p_02_04 p_02_05) - *end*
(move r1 p_03_07 p_02_07) - *end*

38.038: (move r0 p_02_05 p_03_05) - *start*
(move r1 p_02_07 p_02_06) - *start*

39.038: (move r0 p_02_05 p_03_05) - *end*
(move r1 p_02_07 p_02_06) - *end*

39.039: (move r1 p_02_06 p_02_05) - *start*
(move r0 p_03_05 p_04_05) - *start*

40.039: (move r1 p_02_06 p_02_05) - *end*
(move r0 p_03_05 p_04_05) - *end*

40.04: (move r1 p_02_05 p_02_04) - *start*
(move r0 p_04_05 p_05_05) - *start*

41.04: (move r1 p_02_05 p_02_04) - *end*
(move r0 p_04_05 p_05_05) - *end*

41.041: (move r1 p_02_04 p_02_03) - *start*
(move r0 p_05_05 p_04_05) - *start*

42.041: (move r1 p_02_04 p_02_03) - *end*
(move r0 p_05_05 p_04_05) - *end*

42.042: (move r1 p_02_03 p_01_03) - *start*
(move r0 p_04_05 p_03_05) - *start*

43.042: (move r1 p_02_03 p_01_03) - *end*
(move r0 p_04_05 p_03_05) - *end*

43.043: (move r1 p_01_03 p_01_02) - *start*
(move r0 p_03_05 p_02_05) - *start*

44.043: (move r1 p_01_03 p_01_02) - *end*
(move r0 p_03_05 p_02_05) - *end*

44.044: (move r1 p_01_02 p_01_01) - *start*
(move r0 p_02_05 p_01_05) - *start*

45.044: (move r1 p_01_02 p_01_01) - *end*
(move r0 p_02_05 p_01_05) - *end*

45.045: (move r1 p_01_01 p_02_01) - *start*

46.045: (move r1 p_01_01 p_02_01) - *end*

46.046: (push r1 a p_02_01 p_02_02 p_02_03) - *start*

47.046: (push r1 a p_02_01 p_02_02 p_02_03) - *end*

47.047: (push r1 a p_02_02 p_02_03 p_02_04) - *start*

48.047: (push r1 a p_02_02 p_02_03 p_02_04) - *end*

48.048: (push r1 a p_02_03 p_02_04 p_02_05) - *start*

49.048: (push r1 a p_02_03 p_02_04 p_02_05) - *end*

49.049: (push r0 a p_01_05 p_02_05 p_03_05) - *start*

50.049: (push r0 a p_01_05 p_02_05 p_03_05) - *end*

50.05: (push r0 a p_02_05 p_03_05 p_04_05) - *start*

51.05: (push r0 a p_02_05 p_03_05 p_04_05) - *end*

51.051: (push r0 a p_03_05 p_04_05 p_05_05) - *start*
(move r1 p_02_04 p_02_05) - *start*

52.051: (push r0 a p_03_05 p_04_05 p_05_05) - *end*
(move r1 p_02_04 p_02_05) - *end*

52.052: (push r0 a p_04_05 p_05_05 p_06_05) - *start*
(move r1 p_02_05 p_03_05) - *start*

53.052: (push r0 a p_04_05 p_05_05 p_06_05) - *end*
(move r1 p_02_05 p_03_05) - *end*

53.053: (move r0 p_05_05 p_05_06) - *start*
(move r1 p_03_05 p_04_05) - *start*

54.053: (move r0 p_05_05 p_05_06) - *end*
(move r1 p_03_05 p_04_05) - *end*

54.054: (move r0 p_05_06 p_05_07) - *start*
(move r1 p_04_05 p_05_05) - *start*

55.054: (move r0 p_05_06 p_05_07) - *end*
(move r1 p_04_05 p_05_05) - *end*

55.055: (move r0 p_05_07 p_05_08) - *start*
(push r1 a p_05_05 p_06_05 p_07_05) - *start*

56.055: (move r0 p_05_07 p_05_08) - *end*
(push r1 a p_05_05 p_06_05 p_07_05) - *end*

56.056: (push r1 a p_06_05 p_07_05 p_08_05) - *start*
(move r0 p_05_08 p_06_08) - *start*

57.056: (push r1 a p_06_05 p_07_05 p_08_05) - *end*
(move r0 p_05_08 p_06_08) - *end*

57.057: (move r0 p_06_08 p_06_09) - *start*
(move r1 p_07_05 p_06_05) - *start*

58.057: (move r0 p_06_08 p_06_09) - *end*
(move r1 p_07_05 p_06_05) - *end*

58.058: (move r0 p_06_09 p_06_10) - *start*
(move r1 p_06_05 p_05_05) - *start*

59.058: (move r0 p_06_09 p_06_10) - *end*
(move r1 p_06_05 p_05_05) - *end*

59.059: (move r0 p_06_10 p_05_10) - *start*
(move r1 p_05_05 p_05_06) - *start*

60.059: (move r0 p_06_10 p_05_10) - *end*
(move r1 p_05_05 p_05_06) - *end*

60.06: (move r0 p_05_10 p_05_11) - *start*
(move r1 p_05_06 p_05_07) - *start*

61.06: (move r0 p_05_10 p_05_11) - *end*
(move r1 p_05_06 p_05_07) - *end*

61.061: (move r0 p_05_11 p_05_12) - *start*
(move r1 p_05_07 p_05_08) - *start*

62.061: (move r0 p_05_11 p_05_12) - *end*
(move r1 p_05_07 p_05_08) - *end*

62.062: (move r0 p_05_12 p_06_12) - *start*

63.062: (move r0 p_05_12 p_06_12) - *end*

63.063: (push r0 d p_06_12 p_06_11 p_06_10) - *start*

64.063: (push r0 d p_06_12 p_06_11 p_06_10) - *end*

64.064: (push r0 d p_06_11 p_06_10 p_06_09) - *start*

65.064: (push r0 d p_06_11 p_06_10 p_06_09) - *end*

65.065: (push r0 d p_06_10 p_06_09 p_06_08) - *start*

66.065: (push r0 d p_06_10 p_06_09 p_06_08) - *end*

66.066: (push r1 d p_05_08 p_06_08 p_07_08) - *start*

67.066: (push r1 d p_05_08 p_06_08 p_07_08) - *end*

67.067: (push r1 d p_06_08 p_07_08 p_08_08) - *start*

68.067: (push r1 d p_06_08 p_07_08 p_08_08) - *end*

2.3 Plan Validation

Time **Details**

0: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_04_07)
Deleting (empty p_04_08)

Deleting (idle r0)
Deleting (at r0 p_04_06)
Deleting (empty p_05_06)

1: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_04_08)
Adding (empty p_04_07)
Adding (idle r0)
Adding (at r0 p_05_06)
Adding (empty p_04_06)

1.001: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_04_08)
Deleting (empty p_03_08)
Deleting (idle r0)
Deleting (at r0 p_05_06)
Deleting (empty p_05_05)

2.001: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_03_08)
Adding (empty p_04_08)
Adding (idle r0)
Adding (at r0 p_05_05)
Adding (empty p_05_06)

2.002: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_03_08)
Deleting (empty p_02_08)
Deleting (idle r0)
Deleting (at r0 p_05_05)
Deleting (empty p_06_05)

3.002: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_08)
Adding (empty p_03_08)
Adding (idle r0)

Adding (at r0 p_06_05)
Adding (empty p_05_05)

3.003: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_08)
Deleting (empty p_02_09)
Deleting (idle r0)
Deleting (at r0 p_06_05)
Deleting (empty p_06_04)

4.003: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_09)
Adding (empty p_02_08)
Adding (idle r0)
Adding (at r0 p_06_04)
Adding (empty p_06_05)

4.004: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_09)
Deleting (empty p_02_10)
Deleting (idle r0)
Deleting (at r0 p_06_04)
Deleting (empty p_06_03)

5.004: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_10)
Adding (empty p_02_09)
Adding (idle r0)
Adding (at r0 p_06_03)
Adding (empty p_06_04)

5.005: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_10)
Deleting (empty p_01_10)
Deleting (idle r0)
Deleting (at r0 p_06_03)

Deleting (empty p_06_04)

6.005: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_10)
Adding (empty p_02_10)
Adding (idle r0)
Adding (at r0 p_06_04)
Adding (empty p_06_03)

6.006: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_10)
Deleting (empty p_01_11)
Deleting (idle r0)
Deleting (at r0 p_06_04)
Deleting (empty p_06_05)

7.006: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_11)
Adding (empty p_01_10)
Adding (idle r0)
Adding (at r0 p_06_05)
Adding (empty p_06_04)

7.007: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_11)
Deleting (empty p_01_12)
Deleting (idle r0)
Deleting (at r0 p_06_05)
Deleting (empty p_06_06)

8.007: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_12)
Adding (empty p_01_11)
Adding (idle r0)
Adding (at r0 p_06_06)
Adding (empty p_06_05)

8.008: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_12)
Deleting (empty p_02_12)
Deleting (idle r0)
Deleting (at r0 p_06_06)
Deleting (empty p_06_07)

9.008: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_12)
Adding (empty p_01_12)
Adding (idle r0)
Adding (at r0 p_06_07)
Adding (empty p_06_06)

9.009: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_12)
Deleting (at b p_02_11)
Deleting (empty p_02_10)
Deleting (idle r0)
Deleting (at r0 p_06_07)
Deleting (empty p_06_06)

10.009: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_11)
Adding (at b p_02_10)
Adding (empty p_02_12)
Adding (idle r0)
Adding (at r0 p_06_06)
Adding (empty p_06_07)

10.01: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_11)
Deleting (at b p_02_10)
Deleting (empty p_02_09)
Deleting (idle r0)

Deleting (at r0 p_06_06)
Deleting (empty p_06_05)

11.01: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_10)
Adding (at b p_02_09)
Adding (empty p_02_11)
Adding (idle r0)
Adding (at r0 p_06_05)
Adding (empty p_06_06)

11.011: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_10)
Deleting (at b p_02_09)
Deleting (empty p_02_08)
Deleting (idle r0)
Deleting (at r0 p_06_05)
Deleting (empty p_06_04)

12.011: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_09)
Adding (at b p_02_08)
Adding (empty p_02_10)
Adding (idle r0)
Adding (at r0 p_06_04)
Adding (empty p_06_05)

12.012: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_09)
Deleting (at b p_02_08)
Deleting (empty p_02_07)
Deleting (idle r0)
Deleting (at r0 p_06_04)
Deleting (empty p_06_03)

13.012: Checking Happening... ...OK!
Adding (idle r1)

Adding (at r1 p_02_08)
Adding (at b p_02_07)
Adding (empty p_02_09)
Adding (idle r0)
Adding (at r0 p_06_03)
Adding (empty p_06_04)

13.013: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_08)
Deleting (at b p_02_07)
Deleting (empty p_02_06)
Deleting (idle r0)
Deleting (at r0 p_06_03)
Deleting (empty p_05_03)

14.013: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_07)
Adding (at b p_02_06)
Adding (empty p_02_08)
Adding (idle r0)
Adding (at r0 p_05_03)
Adding (empty p_06_03)

14.014: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_07)
Deleting (empty p_01_07)
Deleting (idle r0)
Deleting (at r0 p_05_03)
Deleting (empty p_05_02)

15.014: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_07)
Adding (empty p_02_07)
Adding (idle r0)
Adding (at r0 p_05_02)
Adding (empty p_05_03)

15.015: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_07)
Deleting (empty p_01_06)
Deleting (idle r0)
Deleting (at r0 p_05_02)
Deleting (empty p_05_01)

16.015: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_06)
Adding (empty p_01_07)
Adding (idle r0)
Adding (at r0 p_05_01)
Adding (empty p_05_02)

16.016: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_06)
Deleting (at b p_02_06)
Deleting (empty p_03_06)
Deleting (idle r0)
Deleting (at r0 p_05_01)
Deleting (empty p_06_01)

17.016: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_06)
Adding (at b p_03_06)
Adding (empty p_01_06)
Adding (idle r0)
Adding (at r0 p_06_01)
Adding (empty p_05_01)

17.017: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_06)
Deleting (at b p_03_06)
Deleting (empty p_04_06)
Deleting (idle r0)
Deleting (at r0 p_06_01)

Deleting (at c p_06_02)
Deleting (empty p_06_03)

18.017: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_03_06)
Adding (at b p_04_06)
Adding (empty p_02_06)
Adding (idle r0)
Adding (at r0 p_06_02)
Adding (at c p_06_03)
Adding (empty p_06_01)

18.018: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_03_06)
Deleting (at b p_04_06)
Deleting (empty p_05_06)
Deleting (idle r0)
Deleting (at r0 p_06_02)
Deleting (at c p_06_03)
Deleting (empty p_06_04)

19.018: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_04_06)
Adding (at b p_05_06)
Adding (empty p_03_06)
Adding (idle r0)
Adding (at r0 p_06_03)
Adding (at c p_06_04)
Adding (empty p_06_02)

19.019: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_04_06)
Deleting (at b p_05_06)
Deleting (empty p_06_06)
Deleting (idle r0)
Deleting (at r0 p_06_03)
Deleting (at c p_06_04)

Deleting (empty p_06_05)

20.019: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_05_06)
Adding (at b p_06_06)
Adding (empty p_04_06)
Adding (idle r0)
Adding (at r0 p_06_04)
Adding (at c p_06_05)
Adding (empty p_06_03)

20.02: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_05_06)
Deleting (at b p_06_06)
Deleting (empty p_07_06)

21.02: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_06_06)
Adding (at b p_07_06)
Adding (empty p_05_06)

21.021: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_06)
Deleting (at b p_07_06)
Deleting (empty p_08_06)

22.021: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_07_06)
Adding (at b p_08_06)
Adding (empty p_06_06)

22.022: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_04)
Deleting (at c p_06_05)
Deleting (empty p_06_06)

23.022: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_05)
Adding (at c p_06_06)
Adding (empty p_06_04)

23.023: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_05)
Deleting (empty p_05_05)
Deleting (idle r1)
Deleting (at r1 p_07_06)
Deleting (at c p_06_06)
Deleting (empty p_05_06)

24.023: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_05)
Adding (empty p_06_05)
Adding (idle r1)
Adding (at r1 p_06_06)
Adding (at c p_05_06)
Adding (empty p_07_06)

24.024: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_06)
Deleting (empty p_06_07)
Deleting (idle r0)
Deleting (at r0 p_05_05)
Deleting (empty p_06_05)

25.024: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_06_07)
Adding (empty p_06_06)
Adding (idle r0)
Adding (at r0 p_06_05)
Adding (empty p_05_05)

25.025: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_07)
Deleting (empty p_05_07)
Deleting (idle r0)
Deleting (at r0 p_06_05)
Deleting (empty p_05_05)

26.025: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_05_07)
Adding (empty p_06_07)
Adding (idle r0)
Adding (at r0 p_05_05)
Adding (empty p_06_05)

26.026: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_05_07)
Deleting (empty p_04_07)

27.026: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_04_07)
Adding (empty p_05_07)

27.027: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_05)
Deleting (at c p_05_06)
Deleting (empty p_05_07)

28.027: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_06)
Adding (at c p_05_07)
Adding (empty p_05_05)

28.028: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_06)

Deleting (empty p_04_06)
Deleting (idle r1)
Deleting (at r1 p_04_07)
Deleting (at c p_05_07)
Deleting (empty p_06_07)

29.028: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_04_06)
Adding (empty p_05_06)
Adding (idle r1)
Adding (at r1 p_05_07)
Adding (at c p_06_07)
Adding (empty p_04_07)

29.029: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_05_07)
Deleting (at c p_06_07)
Deleting (empty p_07_07)
Deleting (idle r0)
Deleting (at r0 p_04_06)
Deleting (empty p_03_06)

30.029: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_06_07)
Adding (at c p_07_07)
Adding (empty p_05_07)
Adding (idle r0)
Adding (at r0 p_03_06)
Adding (empty p_04_06)

30.03: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_03_06)
Deleting (empty p_02_06)
Deleting (idle r1)
Deleting (at r1 p_06_07)
Deleting (empty p_06_08)

31.03: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_06)
Adding (empty p_03_06)
Adding (idle r1)
Adding (at r1 p_06_08)
Adding (empty p_06_07)

31.031: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_06)
Deleting (empty p_02_05)
Deleting (idle r1)
Deleting (at r1 p_06_08)
Deleting (empty p_06_07)

32.031: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_05)
Adding (empty p_02_06)
Adding (idle r1)
Adding (at r1 p_06_07)
Adding (empty p_06_08)

32.032: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_07)
Deleting (at c p_07_07)
Deleting (empty p_08_07)
Deleting (idle r0)
Deleting (at r0 p_02_05)
Deleting (empty p_02_04)

33.032: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_07_07)
Adding (at c p_08_07)
Adding (empty p_06_07)
Adding (idle r0)
Adding (at r0 p_02_04)
Adding (empty p_02_05)

33.033: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_04)
Deleting (empty p_02_03)
Deleting (idle r1)
Deleting (at r1 p_07_07)
Deleting (empty p_06_07)

34.033: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_03)
Adding (empty p_02_04)
Adding (idle r1)
Adding (at r1 p_06_07)
Adding (empty p_07_07)

34.034: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_03)
Deleting (empty p_01_03)
Deleting (idle r1)
Deleting (at r1 p_06_07)
Deleting (empty p_05_07)

35.034: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_01_03)
Adding (empty p_02_03)
Adding (idle r1)
Adding (at r1 p_05_07)
Adding (empty p_06_07)

35.035: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_01_03)
Deleting (empty p_02_03)
Deleting (idle r1)
Deleting (at r1 p_05_07)
Deleting (empty p_04_07)

36.035: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_03)
Adding (empty p_01_03)
Adding (idle r1)
Adding (at r1 p_04_07)
Adding (empty p_05_07)

36.036: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_03)
Deleting (empty p_02_04)
Deleting (idle r1)
Deleting (at r1 p_04_07)
Deleting (empty p_03_07)

37.036: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_04)
Adding (empty p_02_03)
Adding (idle r1)
Adding (at r1 p_03_07)
Adding (empty p_04_07)

37.037: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_04)
Deleting (empty p_02_05)
Deleting (idle r1)
Deleting (at r1 p_03_07)
Deleting (empty p_02_07)

38.037: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_02_05)
Adding (empty p_02_04)
Adding (idle r1)
Adding (at r1 p_02_07)
Adding (empty p_03_07)

38.038: Checking Happening... ...OK!

Deleting (idle r0)
Deleting (at r0 p_02_05)
Deleting (empty p_03_05)
Deleting (idle r1)
Deleting (at r1 p_02_07)
Deleting (empty p_02_06)

39.038: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_03_05)
Adding (empty p_02_05)
Adding (idle r1)
Adding (at r1 p_02_06)
Adding (empty p_02_07)

39.039: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_06)
Deleting (empty p_02_05)
Deleting (idle r0)
Deleting (at r0 p_03_05)
Deleting (empty p_04_05)

40.039: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_05)
Adding (empty p_02_06)
Adding (idle r0)
Adding (at r0 p_04_05)
Adding (empty p_03_05)

40.04: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_05)
Deleting (empty p_02_04)
Deleting (idle r0)
Deleting (at r0 p_04_05)
Deleting (empty p_05_05)

41.04: Checking Happening... ...OK!
Adding (idle r1)

Adding (at r1 p_02_04)
Adding (empty p_02_05)
Adding (idle r0)
Adding (at r0 p_05_05)
Adding (empty p_04_05)

41.041: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_04)
Deleting (empty p_02_03)
Deleting (idle r0)
Deleting (at r0 p_05_05)
Deleting (empty p_04_05)

42.041: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_03)
Adding (empty p_02_04)
Adding (idle r0)
Adding (at r0 p_04_05)
Adding (empty p_05_05)

42.042: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_03)
Deleting (empty p_01_03)
Deleting (idle r0)
Deleting (at r0 p_04_05)
Deleting (empty p_03_05)

43.042: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_03)
Adding (empty p_02_03)
Adding (idle r0)
Adding (at r0 p_03_05)
Adding (empty p_04_05)

43.043: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_03)

Deleting (empty p_01_02)
Deleting (idle r0)
Deleting (at r0 p_03_05)
Deleting (empty p_02_05)

44.043: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_02)
Adding (empty p_01_03)
Adding (idle r0)
Adding (at r0 p_02_05)
Adding (empty p_03_05)

44.044: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_02)
Deleting (empty p_01_01)
Deleting (idle r0)
Deleting (at r0 p_02_05)
Deleting (empty p_01_05)

45.044: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_01_01)
Adding (empty p_01_02)
Adding (idle r0)
Adding (at r0 p_01_05)
Adding (empty p_02_05)

45.045: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_01_01)
Deleting (empty p_02_01)

46.045: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_01)
Adding (empty p_01_01)

46.046: Checking Happening... ...OK!
Deleting (idle r1)

Deleting (at r1 p_02_01)
Deleting (at a p_02_02)
Deleting (empty p_02_03)

47.046: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_02)
Adding (at a p_02_03)
Adding (empty p_02_01)

47.047: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_02)
Deleting (at a p_02_03)
Deleting (empty p_02_04)

48.047: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_03)
Adding (at a p_02_04)
Adding (empty p_02_02)

48.048: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_02_03)
Deleting (at a p_02_04)
Deleting (empty p_02_05)

49.048: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_02_04)
Adding (at a p_02_05)
Adding (empty p_02_03)

49.049: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_01_05)
Deleting (at a p_02_05)
Deleting (empty p_03_05)

50.049: Checking Happening... ...OK!

Adding (idle r0)
Adding (at r0 p_02_05)
Adding (at a p_03_05)
Adding (empty p_01_05)

50.05: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_02_05)
Deleting (at a p_03_05)
Deleting (empty p_04_05)

51.05: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_03_05)
Adding (at a p_04_05)
Adding (empty p_02_05)

51.051: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_03_05)
Deleting (at a p_04_05)
Deleting (empty p_05_05)
Deleting (idle r1)
Deleting (at r1 p_02_04)
Deleting (empty p_02_05)

52.051: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_04_05)
Adding (at a p_05_05)
Adding (empty p_03_05)
Adding (idle r1)
Adding (at r1 p_02_05)
Adding (empty p_02_04)

52.052: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_04_05)
Deleting (at a p_05_05)
Deleting (empty p_06_05)
Deleting (idle r1)

Deleting (at r1 p_02_05)
Deleting (empty p_03_05)

53.052: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_05)
Adding (at a p_06_05)
Adding (empty p_04_05)
Adding (idle r1)
Adding (at r1 p_03_05)
Adding (empty p_02_05)

53.053: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_05)
Deleting (empty p_05_06)
Deleting (idle r1)
Deleting (at r1 p_03_05)
Deleting (empty p_04_05)

54.053: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_06)
Adding (empty p_05_05)
Adding (idle r1)
Adding (at r1 p_04_05)
Adding (empty p_03_05)

54.054: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_06)
Deleting (empty p_05_07)
Deleting (idle r1)
Deleting (at r1 p_04_05)
Deleting (empty p_05_05)

55.054: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_07)
Adding (empty p_05_06)
Adding (idle r1)

Adding (at r1 p_05_05)
Adding (empty p_04_05)

55.055: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_07)
Deleting (empty p_05_08)
Deleting (idle r1)
Deleting (at r1 p_05_05)
Deleting (at a p_06_05)
Deleting (empty p_07_05)

56.055: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_08)
Adding (empty p_05_07)
Adding (idle r1)
Adding (at r1 p_06_05)
Adding (at a p_07_05)
Adding (empty p_05_05)

56.056: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_05)
Deleting (at a p_07_05)
Deleting (empty p_08_05)
Deleting (idle r0)
Deleting (at r0 p_05_08)
Deleting (empty p_06_08)

57.056: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_07_05)
Adding (at a p_08_05)
Adding (empty p_06_05)
Adding (idle r0)
Adding (at r0 p_06_08)
Adding (empty p_05_08)

57.057: Checking Happening... ...OK!
Deleting (idle r0)

Deleting (at r0 p_06_08)
Deleting (empty p_06_09)
Deleting (idle r1)
Deleting (at r1 p_07_05)
Deleting (empty p_06_05)

58.057: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_09)
Adding (empty p_06_08)
Adding (idle r1)
Adding (at r1 p_06_05)
Adding (empty p_07_05)

58.058: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_09)
Deleting (empty p_06_10)
Deleting (idle r1)
Deleting (at r1 p_06_05)
Deleting (empty p_05_05)

59.058: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_10)
Adding (empty p_06_09)
Adding (idle r1)
Adding (at r1 p_05_05)
Adding (empty p_06_05)

59.059: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_10)
Deleting (empty p_05_10)
Deleting (idle r1)
Deleting (at r1 p_05_05)
Deleting (empty p_05_06)

60.059: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_10)

Adding (empty p_06_10)
Adding (idle r1)
Adding (at r1 p_05_06)
Adding (empty p_05_05)

60.06: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_10)
Deleting (empty p_05_11)
Deleting (idle r1)
Deleting (at r1 p_05_06)
Deleting (empty p_05_07)

61.06: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_11)
Adding (empty p_05_10)
Adding (idle r1)
Adding (at r1 p_05_07)
Adding (empty p_05_06)

61.061: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_11)
Deleting (empty p_05_12)
Deleting (idle r1)
Deleting (at r1 p_05_07)
Deleting (empty p_05_08)

62.061: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_05_12)
Adding (empty p_05_11)
Adding (idle r1)
Adding (at r1 p_05_08)
Adding (empty p_05_07)

62.062: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_05_12)
Deleting (empty p_06_12)

63.062: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_12)
Adding (empty p_05_12)

63.063: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_12)
Deleting (at d p_06_11)
Deleting (empty p_06_10)

64.063: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_11)
Adding (at d p_06_10)
Adding (empty p_06_12)

64.064: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_11)
Deleting (at d p_06_10)
Deleting (empty p_06_09)

65.064: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_10)
Adding (at d p_06_09)
Adding (empty p_06_11)

65.065: Checking Happening... ...OK!
Deleting (idle r0)
Deleting (at r0 p_06_10)
Deleting (at d p_06_09)
Deleting (empty p_06_08)

66.065: Checking Happening... ...OK!
Adding (idle r0)
Adding (at r0 p_06_09)
Adding (at d p_06_08)
Adding (empty p_06_10)

66.066: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_05_08)
Deleting (at d p_06_08)
Deleting (empty p_07_08)

67.066: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_06_08)
Adding (at d p_07_08)
Adding (empty p_05_08)

67.067: Checking Happening... ...OK!
Deleting (idle r1)
Deleting (at r1 p_06_08)
Deleting (at d p_07_08)
Deleting (empty p_08_08)

68.067: Checking Happening... ...OK!
Adding (idle r1)
Adding (at r1 p_07_08)
Adding (at d p_08_08)
Adding (empty p_06_08)

Plan executed successfully - checking goal

(idle r1) (empty p_04_08) (next p_04_07 p_04_08) (idle r0) (empty p_05_06) (next p_04_06 p_05_06) (empty p_03_08) (next p_04_08 p_03_08) (empty p_05_05) (next p_05_06 p_05_05) (empty p_02_08) (next p_03_08 p_02_08) (empty p_06_05) (next p_05_05 p_06_05) (empty p_02_09) (next p_02_08 p_02_09) (empty p_06_04) (next p_06_05 p_06_04) (empty p_02_10) (next p_02_09 p_02_10) (empty p_06_03) (next p_06_04 p_06_03) (empty p_01_10) (next p_02_10 p_01_10) (next p_06_03 p_06_04) (empty p_01_11) (next p_01_10 p_01_11) (next p_06_04 p_06_05) (empty p_01_12) (next p_01_11 p_01_12) (empty p_06_06) (next p_06_05 p_06_06) (empty p_02_12) (next p_01_12 p_02_12) (empty p_06_07) (next p_06_06 p_06_07) (aligned p_02_12 p_02_11 p_02_10) (next p_06_07 p_06_06) (aligned p_02_11 p_02_10 p_02_09) (next p_06_06 p_06_05) (aligned p_02_10 p_02_09 p_02_08) (empty p_02_07) (aligned p_02_09 p_02_08 p_02_07) (empty p_02_06) (aligned p_02_08 p_02_07 p_02_06) (empty p_05_03) (next p_06_03 p_05_03) (empty

p_01_07) (next p_02_07 p_01_07) (empty p_05_02) (next p_05_03 p_05_02) (empty p_01_06) (next p_01_07 p_01_06) (empty p_05_01) (next p_05_02 p_05_01) (empty p_03_06) (aligned p_01_06 p_02_06 p_03_06) (empty p_06_01) (next p_05_01 p_06_01) (empty p_04_06) (aligned p_02_06 p_03_06 p_04_06) (aligned p_06_01 p_06_02 p_06_03) (aligned p_03_06 p_04_06 p_05_06) (aligned p_06_02 p_06_03 p_06_04) (aligned p_04_06 p_05_06 p_06_06) (aligned p_06_03 p_06_04 p_06_05) (empty p_07_06) (aligned p_05_06 p_06_06 p_07_06) (aligned p_06_06 p_07_06 p_08_06) (aligned p_06_04 p_06_05 p_06_06) (next p_06_05 p_05_05) (aligned p_07_06 p_06_06 p_05_06) (empty p_05_07) (next p_06_07 p_05_07) (empty p_04_07) (next p_05_07 p_04_07) (aligned p_05_05 p_05_06 p_05_07) (next p_05_06 p_04_06) (aligned p_04_07 p_05_07 p_06_07) (empty p_07_07) (aligned p_05_07 p_06_07 p_07_07) (next p_04_06 p_03_06) (next p_03_06 p_02_06) (empty p_06_08) (next p_06_07 p_06_08) (empty p_02_05) (next p_02_06 p_02_05) (next p_06_08 p_06_07) (empty p_02_04) (next p_02_05 p_02_04) (empty p_01_08) (empty p_03_01) (empty p_03_02) (empty p_03_03) (empty p_03_10) (empty p_03_11) (empty p_03_12) (aligned p_06_07 p_07_07 p_08_07) (empty p_02_03) (next p_02_04 p_02_03) (next p_07_07 p_06_07) (empty p_01_03) (next p_02_03 p_01_03) (next p_01_03 p_02_03) (next p_02_03 p_02_04) (empty p_03_07) (next p_04_07 p_03_07) (next p_02_04 p_02_05) (next p_03_07 p_02_07) (empty p_03_05) (next p_02_05 p_03_05) (next p_02_07 p_02_06) (empty p_04_05) (next p_03_05 p_04_05) (next p_04_05 p_05_05) (next p_05_05 p_04_05) (next p_04_05 p_03_05) (empty p_01_02) (next p_01_03 p_01_02) (next p_03_05 p_02_05) (empty p_01_01) (next p_01_02 p_01_01) (empty p_01_05) (next p_02_05 p_01_05) (empty p_02_01) (next p_01_01 p_02_01) (aligned p_02_01 p_02_02 p_02_03) (aligned p_02_02 p_02_03 p_02_04) (aligned p_02_03 p_02_04 p_02_05) (aligned p_01_05 p_02_05 p_03_05) (aligned p_02_05 p_03_05 p_04_05) (aligned p_03_05 p_04_05 p_05_05) (aligned p_04_05 p_05_05 p_06_05) (next p_05_05 p_05_06) (next p_05_06 p_05_07) (empty p_05_08) (next p_05_07 p_05_08) (empty p_07_05) (aligned p_05_05 p_06_05 p_07_05) (aligned p_06_05 p_07_05 p_08_05) (next p_05_08 p_06_08) (next p_06_08 p_06_09) (next p_07_05 p_06_05) (at r0 p_06_09) (empty p_06_10) (next p_06_09 p_06_10) (empty p_05_10) (next p_06_10 p_05_10) (empty p_05_11) (next p_05_10 p_05_11) (empty p_05_12) (next p_05_11 p_05_12) (empty p_06_12) (next p_05_12 p_06_12) (aligned p_06_12 p_06_11 p_06_10) (aligned p_06_11 p_06_10 p_06_09) (aligned p_06_10 p_06_09 p_06_08) (aligned p_05_08 p_06_08 p_07_08) (aligned p_06_08 p_07_08 p_08_08) (empty p_07_01) (empty p_07_02) (empty p_07_03) (empty p_07_10) (empty p_07_11) (empty p_07_12) (empty p_09_00) (empty p_09_01) (empty p_09_02) (empty p_09_03) (empty p_09_10) (empty p_09_11) (empty p_09_12) (empty p_09_13) (next p_00_00 p_00_01) (next p_00_01 p_00_00) (next p_01_00 p_00_00) (next p_00_00 p_01_00) (next p_00_01 p_00_02) (next p_00_02 p_00_01) (next p_01_01 p_00_01) (next p_00_01 p_01_01) (next p_00_02 p_00_03) (next p_00_03 p_00_02) (next

p_01_02 p_00_02) (next p_00_02 p_01_02) (next p_00_03 p_00_04) (next p_00_04 p_00_03) (next p_01_03 p_00_03) (next p_00_03 p_01_03) (next p_00_04 p_00_05) (next p_00_05 p_00_04) (next p_01_04 p_00_04) (next p_00_04 p_01_04) (next p_00_05 p_00_06) (next p_00_06 p_00_05) (next p_01_05 p_00_05) (next p_00_05 p_01_05) (next p_00_06 p_00_07) (next p_00_07 p_00_06) (next p_01_06 p_00_06) (next p_00_06 p_01_06) (next p_00_07 p_00_08) (next p_00_08 p_00_07) (next p_01_07 p_00_07) (next p_00_07 p_01_07) (next p_00_08 p_00_09) (next p_00_09 p_00_08) (next p_01_08 p_00_08) (next p_00_08 p_01_08) (next p_00_09 p_00_10) (next p_00_10 p_00_09) (next p_01_09 p_00_09) (next p_00_09 p_01_09) (next p_00_10 p_00_11) (next p_00_11 p_00_10) (next p_01_10 p_00_10) (next p_00_10 p_01_10) (next p_00_11 p_00_12) (next p_00_12 p_00_11) (next p_01_11 p_00_11) (next p_00_11 p_01_11) (next p_00_12 p_00_13) (next p_00_13 p_00_12) (next p_01_12 p_00_12) (next p_00_12 p_01_12) (next p_01_13 p_00_13) (next p_00_13 p_01_13) (next p_01_00 p_01_01) (next p_01_01 p_01_00) (next p_02_00 p_01_00) (next p_01_00 p_02_00) (next p_01_01 p_01_02) (next p_02_01 p_01_01) (next p_01_02 p_01_03) (next p_02_02 p_01_02) (next p_01_02 p_02_02) (next p_01_03 p_01_04) (next p_01_04 p_01_03) (next p_01_04 p_01_05) (next p_01_05 p_01_04) (next p_02_04 p_01_04) (next p_01_04 p_02_04) (next p_01_05 p_01_06) (next p_01_06 p_01_05) (next p_01_05 p_02_05) (next p_01_06 p_01_07) (next p_02_06 p_01_06) (next p_01_06 p_02_06) (next p_01_07 p_01_08) (next p_01_08 p_01_07) (next p_01_07 p_02_07) (next p_01_08 p_01_09) (next p_01_09 p_01_08) (next p_02_08 p_01_08) (next p_01_08 p_02_08) (next p_01_09 p_01_10) (next p_01_10 p_01_09) (next p_02_09 p_01_09) (next p_01_09 p_02_09) (next p_01_11 p_01_10) (next p_01_10 p_02_10) (next p_01_12 p_01_11) (next p_02_11 p_01_11) (next p_01_11 p_02_11) (next p_01_12 p_01_13) (next p_01_13 p_01_12) (next p_02_12 p_01_12) (next p_02_13 p_01_13) (next p_01_13 p_02_13) (next p_02_00 p_02_01) (next p_02_01 p_02_00) (next p_03_00 p_02_00) (next p_02_00 p_03_00) (next p_02_01 p_02_02) (next p_02_02 p_02_01) (next p_03_01 p_02_01) (next p_02_01 p_03_01) (next p_02_02 p_02_03) (next p_02_03 p_02_02) (next p_03_02 p_02_02) (next p_02_02 p_03_02) (next p_03_03 p_02_03) (next p_02_03 p_03_03) (next p_03_04 p_02_04) (next p_02_04 p_03_04) (next p_02_05 p_02_06) (next p_02_06 p_02_07) (next p_02_06 p_03_06) (next p_02_07 p_02_08) (next p_02_08 p_02_07) (next p_02_07 p_03_07) (next p_02_09 p_02_08) (next p_02_08 p_03_08) (next p_02_10 p_02_09) (next p_03_09 p_02_09) (next p_02_09 p_03_09) (next p_02_10 p_02_11) (next p_02_11 p_02_10) (next p_03_10 p_02_10) (next p_02_10 p_03_10) (next p_02_11 p_02_12) (next p_02_12 p_02_11) (next p_03_11 p_02_11) (next p_02_11 p_03_11) (next p_02_12 p_02_13) (next p_02_13 p_02_12) (next p_03_12 p_02_12) (next p_02_12 p_03_12) (next p_03_13 p_02_13) (next p_02_13 p_03_13) (next p_03_00 p_03_01) (next p_03_01 p_03_00) (next p_04_00 p_03_00) (next p_03_00 p_04_00) (next p_03_01 p_03_02) (next p_03_02 p_03_01) (next p_04_01 p_03_01) (next p_03_01 p_04_01) (next p_03_02 p_03_03) (next p_03_03 p_03_02)

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2.4 Gantt Chart

Gantt Chart Key

Row 1 : r1

No	Time	Action
1	0	(move r1 p_04_07 p_04_08) [1]
3	1.001	(move r1 p_04_08 p_03_08) [1]
5	2.002	(move r1 p_03_08 p_02_08) [1]
7	3.003	(move r1 p_02_08 p_02_09) [1]
9	4.004	(move r1 p_02_09 p_02_10) [1]
11	5.005	(move r1 p_02_10 p_01_10) [1]
13	6.006	(move r1 p_01_10 p_01_11) [1]
15	7.007	(move r1 p_01_11 p_01_12) [1]
17	8.008	(move r1 p_01_12 p_02_12) [1]
19	9.009	(push r1 b p_02_12 p_02_11 p_02_10) [1]
21	10.01	(push r1 b p_02_11 p_02_10 p_02_09) [1]
23	11.011	(push r1 b p_02_10 p_02_09 p_02_08) [1]
25	12.012	(push r1 b p_02_09 p_02_08 p_02_07) [1]
27	13.013	(push r1 b p_02_08 p_02_07 p_02_06) [1]
29	14.014	(move r1 p_02_07 p_01_07) [1]
31	15.015	(move r1 p_01_07 p_01_06) [1]
33	16.016	(push r1 b p_01_06 p_02_06 p_03_06) [1]
35	17.017	(push r1 b p_02_06 p_03_06 p_04_06) [1]
37	18.018	(push r1 b p_03_06 p_04_06 p_05_06) [1]
39	19.019	(push r1 b p_04_06 p_05_06 p_06_06) [1]
41	20.02	(push r1 b p_05_06 p_06_06 p_07_06) [1]
42	21.021	(push r1 b p_06_06 p_07_06 p_08_06) [1]
45	23.023	(push r1 c p_07_06 p_06_06 p_05_06) [1]
46	24.024	(move r1 p_06_06 p_06_07) [1]
48	25.025	(move r1 p_06_07 p_05_07) [1]
50	26.026	(move r1 p_05_07 p_04_07) [1]
53	28.028	(push r1 c p_04_07 p_05_07 p_06_07) [1]
54	29.029	(push r1 c p_05_07 p_06_07 p_07_07) [1]
57	30.03	(move r1 p_06_07 p_06_08) [1]
59	31.031	(move r1 p_06_08 p_06_07) [1]
60	32.032	(push r1 c p_06_07 p_07_07 p_08_07) [1]
63	33.033	(move r1 p_07_07 p_06_07) [1]
65	34.034	(move r1 p_06_07 p_05_07) [1]
67	35.035	(move r1 p_05_07 p_04_07) [1]
69	36.036	(move r1 p_04_07 p_03_07) [1]
71	37.037	(move r1 p_03_07 p_02_07) [1]

73	38.038	(move r1 p_02_07 p_02_06) [1]
74	39.039	(move r1 p_02_06 p_02_05) [1]
76	40.04	(move r1 p_02_05 p_02_04) [1]
78	41.041	(move r1 p_02_04 p_02_03) [1]
80	42.042	(move r1 p_02_03 p_01_03) [1]
82	43.043	(move r1 p_01_03 p_01_02) [1]
84	44.044	(move r1 p_01_02 p_01_01) [1]
86	45.045	(move r1 p_01_01 p_02_01) [1]
87	46.046	(push r1 a p_02_01 p_02_02 p_02_03) [1]
88	47.047	(push r1 a p_02_02 p_02_03 p_02_04) [1]
89	48.048	(push r1 a p_02_03 p_02_04 p_02_05) [1]
93	51.051	(move r1 p_02_04 p_02_05) [1]
95	52.052	(move r1 p_02_05 p_03_05) [1]
97	53.053	(move r1 p_03_05 p_04_05) [1]
99	54.054	(move r1 p_04_05 p_05_05) [1]
101	55.055	(push r1 a p_05_05 p_06_05 p_07_05) [1]
102	56.056	(push r1 a p_06_05 p_07_05 p_08_05) [1]
105	57.057	(move r1 p_07_05 p_06_05) [1]
107	58.058	(move r1 p_06_05 p_05_05) [1]
109	59.059	(move r1 p_05_05 p_05_06) [1]
111	60.06	(move r1 p_05_06 p_05_07) [1]
113	61.061	(move r1 p_05_07 p_05_08) [1]
118	66.066	(push r1 d p_05_08 p_06_08 p_07_08) [1]
119	67.067	(push r1 d p_06_08 p_07_08 p_08_08) [1]

Row 2 : r0

No	**Time**	**Action**
2	0	(move r0 p_04_06 p_05_06) [1]
4	1.001	(move r0 p_05_06 p_05_05) [1]
6	2.002	(move r0 p_05_05 p_06_05) [1]
8	3.003	(move r0 p_06_05 p_06_04) [1]
10	4.004	(move r0 p_06_04 p_06_03) [1]
12	5.005	(move r0 p_06_03 p_06_04) [1]
14	6.006	(move r0 p_06_04 p_06_05) [1]
16	7.007	(move r0 p_06_05 p_06_06) [1]
18	8.008	(move r0 p_06_06 p_06_07) [1]
20	9.009	(move r0 p_06_07 p_06_06) [1]
22	10.01	(move r0 p_06_06 p_06_05) [1]
24	11.011	(move r0 p_06_05 p_06_04) [1]
26	12.012	(move r0 p_06_04 p_06_03) [1]

28	13.013	(move r0 p_06_03 p_05_03) [1]
30	14.014	(move r0 p_05_03 p_05_02) [1]
32	15.015	(move r0 p_05_02 p_05_01) [1]
34	16.016	(move r0 p_05_01 p_06_01) [1]
36	17.017	(push r0 c p_06_01 p_06_02 p_06_03) [1]
38	18.018	(push r0 c p_06_02 p_06_03 p_06_04) [1]
40	19.019	(push r0 c p_06_03 p_06_04 p_06_05) [1]
43	22.022	(push r0 c p_06_04 p_06_05 p_06_06) [1]
44	23.023	(move r0 p_06_05 p_05_05) [1]
47	24.024	(move r0 p_05_05 p_06_05) [1]
49	25.025	(move r0 p_06_05 p_05_05) [1]
51	27.027	(push r0 c p_05_05 p_05_06 p_05_07) [1]
52	28.028	(move r0 p_05_06 p_04_06) [1]
55	29.029	(move r0 p_04_06 p_03_06) [1]
56	30.03	(move r0 p_03_06 p_02_06) [1]
58	31.031	(move r0 p_02_06 p_02_05) [1]
61	32.032	(move r0 p_02_05 p_02_04) [1]
62	33.033	(move r0 p_02_04 p_02_03) [1]
64	34.034	(move r0 p_02_03 p_01_03) [1]
66	35.035	(move r0 p_01_03 p_02_03) [1]
68	36.036	(move r0 p_02_03 p_02_04) [1]
70	37.037	(move r0 p_02_04 p_02_05) [1]
72	38.038	(move r0 p_02_05 p_03_05) [1]
75	39.039	(move r0 p_03_05 p_04_05) [1]
77	40.04	(move r0 p_04_05 p_05_05) [1]
79	41.041	(move r0 p_05_05 p_04_05) [1]
81	42.042	(move r0 p_04_05 p_03_05) [1]
83	43.043	(move r0 p_03_05 p_02_05) [1]
85	44.044	(move r0 p_02_05 p_01_05) [1]
90	49.049	(push r0 a p_01_05 p_02_05 p_03_05) [1]
91	50.05	(push r0 a p_02_05 p_03_05 p_04_05) [1]
92	51.051	(push r0 a p_03_05 p_04_05 p_05_05) [1]
94	52.052	(push r0 a p_04_05 p_05_05 p_06_05) [1]
96	53.053	(move r0 p_05_05 p_05_06) [1]
98	54.054	(move r0 p_05_06 p_05_07) [1]
100	55.055	(move r0 p_05_07 p_05_08) [1]
103	56.056	(move r0 p_05_08 p_06_08) [1]
104	57.057	(move r0 p_06_08 p_06_09) [1]
106	58.058	(move r0 p_06_09 p_06_10) [1]
108	59.059	(move r0 p_06_10 p_05_10) [1]
110	60.06	(move r0 p_05_10 p_05_11) [1]

112	61.061	(move r0 p_05_11 p_05_12) [1]
114	62.062	(move r0 p_05_12 p_06_12) [1]
115	63.063	(push r0 d p_06_12 p_06_11 p_06_10) [1]
116	64.064	(push r0 d p_06_11 p_06_10 p_06_09) [1]
117	65.065	(push r0 d p_06_10 p_06_09 p_06_08) [1]

3 Successful Plans

Value **Plan**

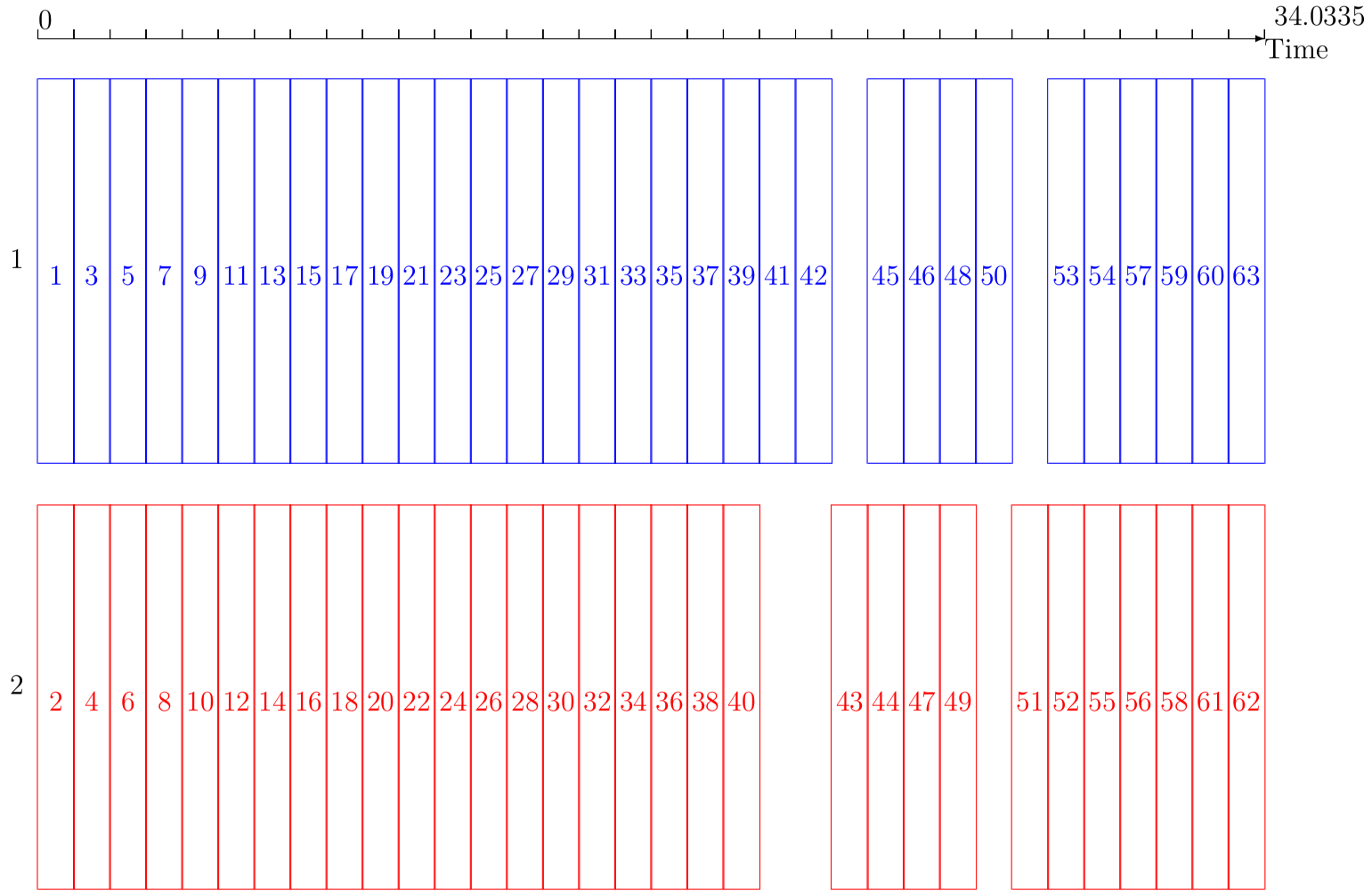

Figure 2.1: Gantt Chart

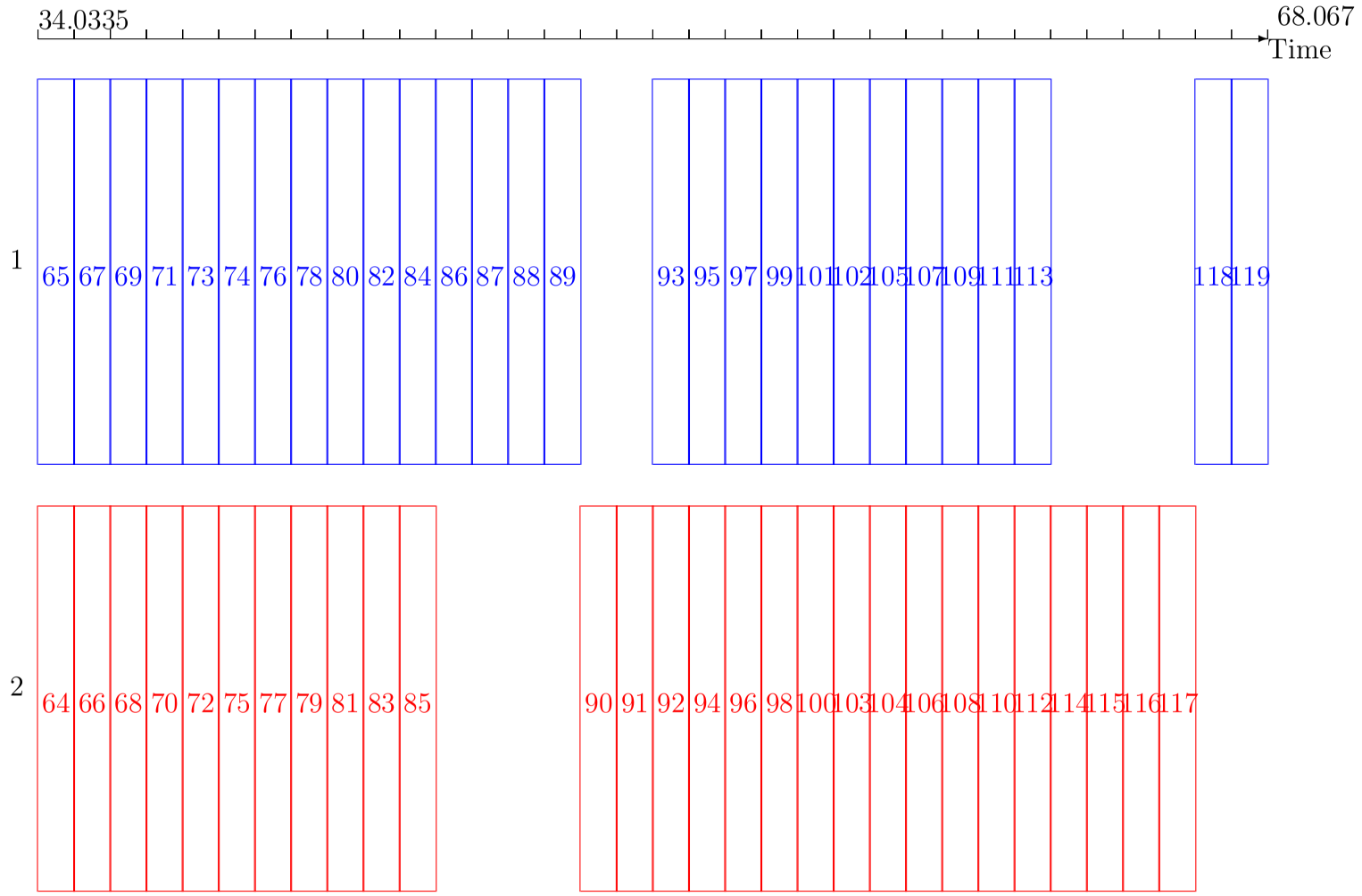

Figure 2.2: Gantt Chart