0: (shake_it d1)	13.0:waiting [17.0]
0:waiting [3.0]	17.0: (start_clean ambrogio t2)
3.0: (shake_it d2)	17.0:waiting [19.0]
3.0:waiting [5.0]	19.0: (start_move ambrogio t2 t4)
5.0: (start_move ambrogio A b)	19.0:waiting [20.0]
5.0:waiting [6.0]	20.0: (start_clean ambrogio t4)
6.0: (put_on_tray ambrogio b d2)	20.0:waiting [22.0]
6.0: (put_on_tray ambrogio b d1)	22.0: (start_move ambrogio t4 t3)
6.0: (take_tray ambrogio b)	22.0:waiting [23.0]
6.0: (start_move ambrogio b t2)	23.0: (start_clean ambrogio t3)
6.0:waiting [8.0]	23.0:waiting [27.0]
8.0: (serve_drink_t ambrogio t2 d2)	27.0: (start_move ambrogio t3 A)
8.0: (serve_drink_t ambrogio t2 d1)	27.0:waiting [29.0]
8.0: (start_move ambrogio t2 b)	
8.0:waiting [10.0]	Plan-Length:70
10.0: (leave_tray ambrogio b)	Elapsed Time: 29.0
10.0: (take_biscuit_for d1 ambrogio b)	Metric (Search):53.0
10.0: (start_move ambrogio b t2)	Planning Time (msec): 850
10.0:waiting [11.0]	Heuristic Time (msec): 187
11.0: (give_biscuit_to d1 ambrogio t2)	Search Time (msec): 289
11.0: (start_move ambrogio t2 b)	Expanded Nodes:238
11.0:waiting [12.0]	States Evaluated:1693
12.0: (take_biscuit_for d2 ambrogio b)	Fixed constraint violations during search
12.0: (start_move ambrogio b t2)	(zero-crossing):0
12.0:waiting [13.0]	Number of Dead-Ends detected:717
13.0: (give_biscuit_to d2 ambrogio t2)	Number of Duplicates detected:69

0: (shake_it d3)	27.0: (serve_drink_g ambrogio t3 d1)
0:waiting [3.0]	27.0: (start_move ambrogio t3 b)
3.0: (shake_it d4)	27.0:waiting [29.0]
3.0:waiting [6.0]	29.0: (take_biscuit_for d3 ambrogio b)
6.0: (start_move gertrude G t1)	29.0: (start_move ambrogio b t3)
6.0:waiting [7.0]	29.0:waiting [31.0]
7.0: (shake_it d2)	31.0: (give_biscuit_to d3 ambrogio t3)
7.0:waiting [8.0]	31.0: (start_move ambrogio t3 b)
8.0: (start_clean gertrude t1)	31.0:waiting [33.0]
8.0:waiting [10.0]	33.0: (take_biscuit_for d4 ambrogio b)
10.0: (start_move gertrude t1 G)	33.0: (start_move ambrogio b t3)
10.0:waiting [11.0]	33.0:waiting [35.0]
11.0: (start_move ambrogio A b)	35.0: (give_biscuit_to d4 ambrogio t3)
11.0:waiting [12.0]	35.0:waiting [39.0]
12.0: (put_on_tray ambrogio b d4)	39.0: (start_clean ambrogio t3)
12.0: (put_on_tray ambrogio b d2)	39.0:waiting [43.0]
12.0: (put_on_tray ambrogio b d3)	43.0: (start_move ambrogio t3 A)
12.0: (take_tray ambrogio b)	43.0:waiting [45.0]
12.0: (start_move ambrogio b t3)	
12.0:waiting [15.0]	Plan-Length:98
15.0: (serve_drink_t ambrogio t3 d4)	Elapsed Time: 45.0
15.0: (serve_drink_t ambrogio t3 d2)	Metric (Search):76.0
15.0:waiting [16.0]	Planning Time (msec): 6201
16.0: (serve_drink_t ambrogio t3 d3)	Heuristic Time (msec): 4691
16.0: (start_move ambrogio t3 b)	Search Time (msec): 5421
16.0:waiting [19.0]	Expanded Nodes:7396
19.0: (leave_tray ambrogio b)	States Evaluated:44728
19.0: (shake_it d1)	Fixed constraint violations during search
19.0:waiting [25.0]	(zero-crossing):0
25.0: (take_drink ambrogio b d1)	Number of Dead-Ends detected:20544
25.0: (start_move ambrogio b t3)	Number of Duplicates detected:8734
25.0:waiting [27.0]	

0: (shake_it d1)	28.0:waiting [29.0]
0:waiting [5.0]	29.0: (shake_it d2)
5.0: (start_move gertrude G b)	29.0:waiting [30.0]
5.0:waiting [6.0]	30.0: (start_clean ambrogio t1)
6.0: (take_drink gertrude b d1)	30.0:waiting [32.0]
6.0: (start_move gertrude b t4)	32.0: (start_move ambrogio t1 A)
6.0:waiting [8.0]	32.0:waiting [33.0]
8.0: (serve_drink_g gertrude t4 d1)	33.0: (start_move gertrude t4 b)
8.0: (shake_it d4)	33.0:waiting [35.0]
8.0:waiting [13.0]	35.0: (take_drink gertrude b d2)
13.0: (start_move ambrogio A b)	35.0: (start_move gertrude b t4)
13.0:waiting [14.0]	35.0:waiting [37.0]
14.0: (take_drink ambrogio b d4)	37.0: (serve_drink_g gertrude t4 d2)
14.0: (shake_it d3)	37.0:waiting [41.0]
14.0:waiting [15.0]	41.0: (start_clean gertrude t4)
15.0: (start_move ambrogio b t1)	41.0:waiting [43.0]
15.0:waiting [16.0]	43.0: (start_move gertrude t4 G)
16.0: (serve_drink_g ambrogio t1 d4)	43.0:waiting [45.0]
16.0:waiting [19.0]	
19.0: (start_move ambrogio t1 b)	Plan-Length:97
19.0:waiting [20.0]	Elapsed Time: 45.0
20.0: (take_drink ambrogio b d3)	Metric (Search):72.0
20.0: (start_move ambrogio b t1)	Planning Time (msec): 3978
20.0:waiting [21.0]	Heuristic Time (msec): 2819
21.0: (serve_drink_g ambrogio t1 d3)	Search Time (msec): 3342
21.0:waiting [23.0]	Expanded Nodes:8855
23.0: (start_move ambrogio t1 t3)	States Evaluated:42295
23.0:waiting [24.0]	Fixed constraint violations during search
24.0: (start_clean ambrogio t3)	(zero-crossing):0
24.0:waiting [28.0]	Number of Dead-Ends detected:25578
28.0: (start_move ambrogio t3 t1)	Number of Duplicates detected:3407

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0: (shake_it d5)	39.0:waiting [41.0]
0:waiting [3.0]	41.0: (shake_it d2)
3.0: (shake_it d7)	41.0:waiting [45.0]
3.0:waiting [6.0]	45.0: (start_move ambrogio t3 b)
6.0: (shake_it d6)	45.0:waiting [47.0]
6.0:waiting [9.0]	47.0: (take_drink ambrogio b d2)
9.0: (shake_it d8)	47.0: (start_move ambrogio b t3)
9.0:waiting [12.0]	47.0:waiting [49.0]
12.0: (shake_it d4)	49.0: (serve_drink_g ambrogio t3 d2)
12.0:waiting [17.0]	49.0: (shake_it d1)
17.0: (start_move ambrogio A b)	49.0:waiting [52.0]
17.0:waiting [18.0]	52.0: (start_move ambrogio t3 b)
18.0: (take_drink ambrogio b d4)	52.0:waiting [54.0]
18.0: (start_move ambrogio b t3)	54.0: (take_drink ambrogio b d1)
18.0:waiting [20.0]	54.0: (start_move ambrogio b t3)
20.0: (serve_drink_g ambrogio t3 d4)	54.0:waiting [57.0]
20.0:waiting [23.0]	57.0: (serve_drink_g ambrogio t3 d1)
23.0: (start_move gertrude G b)	57.0:waiting [61.0]
23.0:waiting [24.0]	61.0: (start_clean ambrogio t3)
24.0: (put_on_tray gertrude b d5)	61.0:waiting [65.0]
24.0: (put_on_tray gertrude b d7)	65.0: (start_move ambrogio t3 A)
24.0: (put_on_tray gertrude b d8)	65.0: (serve_drink_g gertrude t4 d6)
24.0: (take_tray gertrude b)	65.0: (start_clean gertrude t4)
24.0: (start_move gertrude b t1)	65.0:waiting [67.0]
24.0:waiting [26.0]	67.0: (start_move gertrude t4 b)
26.0: (serve_drink_t gertrude t1 d8)	67.0:waiting [69.0]
26.0: (start_move gertrude t1 t4)	69.0: (take_biscuit_for d7 gertrude b)
26.0:waiting [27.0]	69.0: (start_move gertrude b t1)
27.0: (serve_drink_t gertrude t4 d5)	69.0:waiting [70.0]
27.0: (shake_it d3)	70.0: (give_biscuit_to d7 gertrude t1)
27.0:waiting [31.0]	70.0:waiting [71.0]
31.0: (start move ambrogio t3 b)	71.0: (start_move gertrude t1 b)
31.0:waiting [33.0]	71.0:waiting [72.0]
33.0: (take_drink ambrogio b d3)	72.0: (take_biscuit_for d6 gertrude b)
33.0: (start_move ambrogio b t3)	72.0: (start_move gertrude b t4)
33.0:waiting [35.0]	72.0:waiting [74.0]
35.0: (serve_drink_g ambrogio t3 d3)	74.0: (give_biscuit_to d6 gertrude t4)
35.0:waiting [36.0]	74.0:waiting [75.0]
36.0: (start_move gertrude t4 t1)	75.0: (start move gertrude t4 b)
36.0:waiting [37.0]	75.0:waiting [77.0]
37.0: (serve_drink_t gertrude t1 d7)	77.0: (take_biscuit_for d8 gertrude b)
37.0: (start_move gertrude t1 b)	77.0: (take_bisedit_ior do gertidae b) 77.0: (start_move gertrude b t1)
37.0: (start_move gertide (1 b)	77.0: (start_move gertide b (1) 77.0:waiting [78.0]
	78.0: (give_biscuit_to d8 gertrude t1)
39.0: (leave_tray gertrude b)	
39.0: (take_drink gertrude b d6)	78.0:waiting [82.0] 82.0: (start_clean gertrude t1)
39.0: (start_move gertrude b t4)	02.0. (Start_Glean gertrude tr)

82.0: -----waiting---- [84.0]
84.0: (start_move gertrude t1 b)
84.0: -----waiting---- [85.0]
85.0: (take_biscuit_for d5 gertrude b)
85.0: (start_move gertrude b t4)
85.0: -----waiting---- [87.0]
87.0: (give_biscuit_to d5 gertrude t4)
87.0: -----waiting---- [91.0]
91.0: (start_clean gertrude t4)
91.0: -----waiting---- [93.0]
93.0: (start_move gertrude t4 G)
93.0: -----waiting---- [95.0]

Plan-Length:204
Elapsed Time: 95.0
Metric (Search):157.0
Planning Time (msec): 55017
Heuristic Time (msec): 51097
Search Time (msec): 54200
Expanded Nodes:42217
States Evaluated:321496
Fixed constraint violations during search (zero-crossing):0
Number of Dead-Ends detected:158034
Number of Duplicates detected:40438