

Plan Validation Report

VAL

May 21, 2022

1 Domain and Problem

Domain: inspection26

Problem: inspection06

2 Plan: plans/plan26-01-08-enhsp

2.1 Plan

Plan size: 107

Time	Action
1:	(move w1x w1y w12x w12y)
2:	(register-radiation w12x w12y)
3:	(move w12x w12y w11x w11y)
4:	(register-radiation w11x w11y)
5:	(move w11x w11y w8x w8y)
6:	(register-radiation w8x w8y)
7:	(move w8x w8y w7x w7y)
8:	(register-radiation w7x w7y)
9:	(move w7x w7y w13x w13y)
10:	(register-radiation w13x w13y)
11:	(move w13x w13y w12x w12y)
12:	(move w12x w12y w11x w11y)
13:	(move w11x w11y w20x w20y)
14:	(register-radiation w20x w20y)
15:	(move w20x w20y w10x w10y)
16:	(register-radiation w10x w10y)
17:	(move w10x w10y w11x w11y)

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18:      (move w11x w11y w12x w12y)
19:      (move w12x w12y w13x w13y)
20:      (move w13x w13y w6x w6y)
21:      (register-radiation w6x w6y)
22:      (move w6x w6y w5x w5y)
23:      (register-radiation w5x w5y)
24:      (move w5x w5y w6x w6y)
25:      (move w6x w6y w13x w13y)
26:      (move w13x w13y w12x w12y)
27:      (move w12x w12y w11x w11y)
28:      (move w11x w11y w10x w10y)
29:      (move w10x w10y w19x w19y)
30:      (register-radiation w19x w19y)
31:      (move w19x w19y w10x w10y)
32:      (move w10x w10y w9x w9y)
33:      (register-radiation w9x w9y)
34:      (move w9x w9y w10x w10y)
35:      (move w10x w10y w19x w19y)
36:      (move w19x w19y w16x w16y)
37:      (register-radiation w16x w16y)
38:      (move w16x w16y w20x w20y)
39:      (move w20x w20y w11x w11y)
40:      (move w11x w11y w12x w12y)
41:      (move w12x w12y w13x w13y)
42:      (move w13x w13y w6x w6y)
43:      (move w6x w6y w5x w5y)
44:      (move w5x w5y w4x w4y)
45:      (register-radiation w4x w4y)
46:      (move w4x w4y w5x w5y)
47:      (move w5x w5y w6x w6y)
48:      (move w6x w6y w13x w13y)
49:      (move w13x w13y w12x w12y)
50:      (move w12x w12y w11x w11y)
51:      (move w11x w11y w20x w20y)
52:      (move w20x w20y w15x w15y)
53:      (register-radiation w15x w15y)
54:      (move w15x w15y w16x w16y)
55:      (move w16x w16y w17x w17y)
56:      (register-radiation w17x w17y)
57:      (move w17x w17y w19x w19y)
58:      (move w19x w19y w10x w10y)

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59:      (move w10x w10y w11x w11y)
60:      (move w11x w11y w12x w12y)
61:      (move w12x w12y w13x w13y)
62:      (move w13x w13y w6x w6y)
63:      (move w6x w6y w5x w5y)
64:      (move w5x w5y w4x w4y)
65:      (move w4x w4y w3x w3y)
66:      (register-radiation w3x w3y)
67:      (move w3x w3y w1x w1y)
68:      (register-radiation w1x w1y)
69:      (move w1x w1y w4x w4y)
70:      (move w4x w4y w5x w5y)
71:      (move w5x w5y w6x w6y)
72:      (move w6x w6y w13x w13y)
73:      (move w13x w13y w14x w14y)
74:      (register-radiation w14x w14y)
75:      (move w14x w14y w15x w15y)
76:      (move w15x w15y w16x w16y)
77:      (move w16x w16y w17x w17y)
78:      (move w17x w17y w18x w18y)
79:      (register-radiation w18x w18y)
80:      (move w18x w18y w10x w10y)
81:      (move w10x w10y w8x w8y)
82:      (move w8x w8y w7x w7y)
83:      (move w7x w7y w6x w6y)
84:      (move w6x w6y w5x w5y)
85:      (move w5x w5y w2x w2y)
86:      (register-radiation w2x w2y)
87:      (inspect w2x w2y object1)
88:      (move w2x w2y w5x w5y)
89:      (move w5x w5y w6x w6y)
90:      (move w6x w6y w13x w13y)
91:      (move w13x w13y w14x w14y)
92:      (inspect w14x w14y object2)
93:      (move w14x w14y w15x w15y)
94:      (move w15x w15y w16x w16y)
95:      (move w16x w16y w17x w17y)
96:      (move w17x w17y w18x w18y)
97:      (inspect w18x w18y object3)
98:      (move w18x w18y w19x w19y)
99:      (move w19x w19y w10x w10y)

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100:      (move w10x w10y w11x w11y)
101:      (move w11x w11y w12x w12y)
102:      (move w12x w12y w13x w13y)
103:      (move w13x w13y w6x w6y)
104:      (move w6x w6y w5x w5y)
105:      (move w5x w5y w4x w4y)
106:      (move w4x w4y w3x w3y)
107:      (move w3x w3y w1x w1y)

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2.2 Plan To Validate

Time	Happening
1:	(move w1x w1y w12x w12y)
2:	(register-radiation w12x w12y)
3:	(move w12x w12y w11x w11y)
4:	(register-radiation w11x w11y)
5:	(move w11x w11y w8x w8y)
6:	(register-radiation w8x w8y)
7:	(move w8x w8y w7x w7y)
8:	(register-radiation w7x w7y)
9:	(move w7x w7y w13x w13y)
10:	(register-radiation w13x w13y)
11:	(move w13x w13y w12x w12y)
12:	(move w12x w12y w11x w11y)
13:	(move w11x w11y w20x w20y)
14:	(register-radiation w20x w20y)

15: (move w20x w20y w10x w10y)
16: (register-radiation w10x w10y)
17: (move w10x w10y w11x w11y)
18: (move w11x w11y w12x w12y)
19: (move w12x w12y w13x w13y)
20: (move w13x w13y w6x w6y)
21: (register-radiation w6x w6y)
22: (move w6x w6y w5x w5y)
23: (register-radiation w5x w5y)
24: (move w5x w5y w6x w6y)
25: (move w6x w6y w13x w13y)
26: (move w13x w13y w12x w12y)
27: (move w12x w12y w11x w11y)
28: (move w11x w11y w10x w10y)
29: (move w10x w10y w19x w19y)
30: (register-radiation w19x w19y)
31: (move w19x w19y w10x w10y)
32: (move w10x w10y w9x w9y)
33: (register-radiation w9x w9y)
34: (move w9x w9y w10x w10y)

35: (move w10x w10y w19x w19y)
36: (move w19x w19y w16x w16y)
37: (register-radiation w16x w16y)
38: (move w16x w16y w20x w20y)
39: (move w20x w20y w11x w11y)
40: (move w11x w11y w12x w12y)
41: (move w12x w12y w13x w13y)
42: (move w13x w13y w6x w6y)
43: (move w6x w6y w5x w5y)
44: (move w5x w5y w4x w4y)
45: (register-radiation w4x w4y)
46: (move w4x w4y w5x w5y)
47: (move w5x w5y w6x w6y)
48: (move w6x w6y w13x w13y)
49: (move w13x w13y w12x w12y)
50: (move w12x w12y w11x w11y)
51: (move w11x w11y w20x w20y)
52: (move w20x w20y w15x w15y)
53: (register-radiation w15x w15y)
54: (move w15x w15y w16x w16y)
55: (move w16x w16y w17x w17y)

56: (register-radiation w17x w17y)
57: (move w17x w17y w19x w19y)
58: (move w19x w19y w10x w10y)
59: (move w10x w10y w11x w11y)
60: (move w11x w11y w12x w12y)
61: (move w12x w12y w13x w13y)
62: (move w13x w13y w6x w6y)
63: (move w6x w6y w5x w5y)
64: (move w5x w5y w4x w4y)
65: (move w4x w4y w3x w3y)
66: (register-radiation w3x w3y)
67: (move w3x w3y w1x w1y)
68: (register-radiation w1x w1y)
69: (move w1x w1y w4x w4y)
70: (move w4x w4y w5x w5y)
71: (move w5x w5y w6x w6y)
72: (move w6x w6y w13x w13y)
73: (move w13x w13y w14x w14y)
74: (register-radiation w14x w14y)
75: (move w14x w14y w15x w15y)

76: (move w15x w15y w16x w16y)
77: (move w16x w16y w17x w17y)
78: (move w17x w17y w18x w18y)
79: (register-radiation w18x w18y)
80: (move w18x w18y w10x w10y)
81: (move w10x w10y w8x w8y)
82: (move w8x w8y w7x w7y)
83: (move w7x w7y w6x w6y)
84: (move w6x w6y w5x w5y)
85: (move w5x w5y w2x w2y)
86: (register-radiation w2x w2y)
87: (inspect w2x w2y object1)
88: (move w2x w2y w5x w5y)
89: (move w5x w5y w6x w6y)
90: (move w6x w6y w13x w13y)
91: (move w13x w13y w14x w14y)
92: (inspect w14x w14y object2)
93: (move w14x w14y w15x w15y)
94: (move w15x w15y w16x w16y)
95: (move w16x w16y w17x w17y)
96: (move w17x w17y w18x w18y)

97: (inspect w18x w18y object3)
98: (move w18x w18y w19x w19y)
99: (move w19x w19y w10x w10y)
100: (move w10x w10y w11x w11y)
101: (move w11x w11y w12x w12y)
102: (move w12x w12y w13x w13y)
103: (move w13x w13y w6x w6y)
104: (move w6x w6y w5x w5y)
105: (move w5x w5y w4x w4y)
106: (move w4x w4y w3x w3y)
107: (move w3x w3y w1x w1y)

2.3 Plan Validation

Time	Details
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1:	Checking Happening... ...OK! Deleting (at-waypoint w1x w1y) Adding (at-waypoint w12x w12y) Adding (has-passed w1x w1y) Increasing (total-cost) (0) by 17.4165.
2:	Checking Happening... ...OK! Adding (radiation-registered w12x) Adding (radiation-registered w12y)
3:	Checking Happening... ...OK! Deleting (at-waypoint w12x w12y)

- Adding (at-waypoint w11x w11y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (17.4165) by 0.919689.
- 4: Checking Happening... ...OK!
 Adding (radiation-registered w11x)
 Adding (radiation-registered w11y)
- 5: Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w8x w8y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (18.3362) by 4.10618.
- 6: Checking Happening... ...OK!
 Adding (radiation-registered w8x)
 Adding (radiation-registered w8y)
- 7: Checking Happening... ...OK!
 Deleting (at-waypoint w8x w8y)
 Adding (at-waypoint w7x w7y)
 Adding (has-passed w8x w8y)
 Increasing (**total-cost**) (22.4424) by 0.967463.
- 8: Checking Happening... ...OK!
 Adding (radiation-registered w7x)
 Adding (radiation-registered w7y)
- 9: Checking Happening... ...OK!
 Deleting (at-waypoint w7x w7y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w7x w7y)
 Increasing (**total-cost**) (23.4098) by 4.96157.
- 10: Checking Happening... ...OK!
 Adding (radiation-registered w13x)
 Adding (radiation-registered w13y)
- 11: Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w12x w12y)

- Adding (has-passed w13x w13y)
Increasing (**total-cost**) (28.3714) by 1.11541.
- 12:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (29.4868) by 0.919689.
- 13:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w20x w20y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (30.4065) by 1.63335.
- 14:** Checking Happening... ...OK!
 Adding (radiation-registered w20x)
 Adding (radiation-registered w20y)
- 15:** Checking Happening... ...OK!
 Deleting (at-waypoint w20x w20y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w20x w20y)
 Increasing (**total-cost**) (32.0399) by 2.19401.
- 16:** Checking Happening... ...OK!
 Adding (radiation-registered w10x)
 Adding (radiation-registered w10y)
- 17:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (34.2339) by 0.895911.
- 18:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (35.1298) by 0.919689.

- 19:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (36.0495) by 1.11541.
- 20:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (37.1649) by 3.7346.
- 21:** Checking Happening... ...OK!
 Adding (radiation-registered w6x)
 Adding (radiation-registered w6y)
- 22:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (40.8995) by 0.992962.
- 23:** Checking Happening... ...OK!
 Adding (radiation-registered w5x)
 Adding (radiation-registered w5y)
- 24:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (41.8924) by 0.992962.
- 25:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (42.8854) by 3.7346.
- 26:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w12x w12y)

- Adding (has-passed w13x w13y)
Increasing (**total-cost**) (46.62) by 1.11541.
- 27:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (47.7354) by 0.919689.
- 28:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (48.6551) by 0.895911.
- 29:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w19x w19y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (49.551) by 1.54684.
- 30:** Checking Happening... ...OK!
 Adding (radiation-registered w19x)
 Adding (radiation-registered w19y)
- 31:** Checking Happening... ...OK!
 Deleting (at-waypoint w19x w19y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w19x w19y)
 Increasing (**total-cost**) (51.0978) by 1.54684.
- 32:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w9x w9y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (52.6447) by 4.11639.
- 33:** Checking Happening... ...OK!
 Adding (radiation-registered w9x)
 Adding (radiation-registered w9y)

- 34:** Checking Happening... ...OK!
 Deleting (at-waypoint w9x w9y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w9x w9y)
 Increasing (**total-cost**) (56.7611) by 4.11639.
- 35:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w19x w19y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (60.8775) by 1.54684.
- 36:** Checking Happening... ...OK!
 Deleting (at-waypoint w19x w19y)
 Adding (at-waypoint w16x w16y)
 Adding (has-passed w19x w19y)
 Increasing (**total-cost**) (62.4243) by 2.50635.
- 37:** Checking Happening... ...OK!
 Adding (radiation-registered w16x)
 Adding (radiation-registered w16y)
- 38:** Checking Happening... ...OK!
 Deleting (at-waypoint w16x w16y)
 Adding (at-waypoint w20x w20y)
 Adding (has-passed w16x w16y)
 Increasing (**total-cost**) (64.9307) by 2.26604.
- 39:** Checking Happening... ...OK!
 Deleting (at-waypoint w20x w20y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w20x w20y)
 Increasing (**total-cost**) (67.1967) by 1.63335.
- 40:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (68.8301) by 0.919689.
- 41:** Checking Happening... ...OK!

- Deleting (at-waypoint w12x w12y)
Adding (at-waypoint w13x w13y)
Adding (has-passed w12x w12y)
Increasing (**total-cost**) (69.7497) by 1.11541.
- 42:** Checking Happening... ...OK!
Deleting (at-waypoint w13x w13y)
Adding (at-waypoint w6x w6y)
Adding (has-passed w13x w13y)
Increasing (**total-cost**) (70.8652) by 3.7346.
- 43:** Checking Happening... ...OK!
Deleting (at-waypoint w6x w6y)
Adding (at-waypoint w5x w5y)
Adding (has-passed w6x w6y)
Increasing (**total-cost**) (74.5998) by 0.992962.
- 44:** Checking Happening... ...OK!
Deleting (at-waypoint w5x w5y)
Adding (at-waypoint w4x w4y)
Adding (has-passed w5x w5y)
Increasing (**total-cost**) (75.5927) by 0.895241.
- 45:** Checking Happening... ...OK!
Adding (radiation-registered w4x)
Adding (radiation-registered w4y)
- 46:** Checking Happening... ...OK!
Deleting (at-waypoint w4x w4y)
Adding (at-waypoint w5x w5y)
Adding (has-passed w4x w4y)
Increasing (**total-cost**) (76.488) by 0.895241.
- 47:** Checking Happening... ...OK!
Deleting (at-waypoint w5x w5y)
Adding (at-waypoint w6x w6y)
Adding (has-passed w5x w5y)
Increasing (**total-cost**) (77.3832) by 0.992962.
- 48:** Checking Happening... ...OK!
Deleting (at-waypoint w6x w6y)

- Adding (at-waypoint w13x w13y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (78.3762) by 3.7346.
- 49:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (82.1108) by 1.11541.
- 50:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (83.2262) by 0.919689.
- 51:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w20x w20y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (84.1459) by 1.63335.
- 52:** Checking Happening... ...OK!
 Deleting (at-waypoint w20x w20y)
 Adding (at-waypoint w15x w15y)
 Adding (has-passed w20x w20y)
 Increasing (**total-cost**) (85.7792) by 2.30698.
- 53:** Checking Happening... ...OK!
 Adding (radiation-registered w15x)
 Adding (radiation-registered w15y)
- 54:** Checking Happening... ...OK!
 Deleting (at-waypoint w15x w15y)
 Adding (at-waypoint w16x w16y)
 Adding (has-passed w15x w15y)
 Increasing (**total-cost**) (88.0862) by 1.50419.
- 55:** Checking Happening... ...OK!
 Deleting (at-waypoint w16x w16y)
 Adding (at-waypoint w17x w17y)

- Adding (has-passed w16x w16y)
Increasing (**total-cost**) (89.5904) by 1.72576.
- 56:** Checking Happening... ...OK!
 Adding (radiation-registered w17x)
 Adding (radiation-registered w17y)
- 57:** Checking Happening... ...OK!
 Deleting (at-waypoint w17x w17y)
 Adding (at-waypoint w19x w19y)
 Adding (has-passed w17x w17y)
 Increasing (**total-cost**) (91.3161) by 1.92815.
- 58:** Checking Happening... ...OK!
 Deleting (at-waypoint w19x w19y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w19x w19y)
 Increasing (**total-cost**) (93.2443) by 1.54684.
- 59:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (94.7911) by 0.895911.
- 60:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (95.687) by 0.919689.
- 61:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (96.6067) by 1.11541.
- 62:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w13x w13y)

- Increasing (**total-cost**) (97.7221) by 3.7346.
- 63:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (101.457) by 0.992962.
- 64:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w4x w4y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (102.45) by 0.895241.
- 65:** Checking Happening... ...OK!
 Deleting (at-waypoint w4x w4y)
 Adding (at-waypoint w3x w3y)
 Adding (has-passed w4x w4y)
 Increasing (**total-cost**) (103.345) by 1.03362.
- 66:** Checking Happening... ...OK!
 Adding (radiation-registered w3x)
 Adding (radiation-registered w3y)
- 67:** Checking Happening... ...OK!
 Deleting (at-waypoint w3x w3y)
 Adding (at-waypoint w1x w1y)
 Adding (has-passed w3x w3y)
 Increasing (**total-cost**) (104.379) by 1.06016.
- 68:** Checking Happening... ...OK!
 Adding (radiation-registered w1x)
 Adding (radiation-registered w1y)
- 69:** Checking Happening... ...OK!
 Deleting (at-waypoint w1x w1y)
 Adding (at-waypoint w4x w4y)
 Adding (has-passed w1x w1y)
 Increasing (**total-cost**) (105.439) by 2.12044.
- 70:** Checking Happening... ...OK!

- Deleting (at-waypoint w4x w4y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w4x w4y)
 Increasing (**total-cost**) (107.559) by 0.895241.
- 71:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (108.454) by 0.992962.
- 72:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (109.447) by 3.7346.
- 73:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w14x w14y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (113.182) by 6.46723.
- 74:** Checking Happening... ...OK!
 Adding (radiation-registered w14x)
 Adding (radiation-registered w14y)
- 75:** Checking Happening... ...OK!
 Deleting (at-waypoint w14x w14y)
 Adding (at-waypoint w15x w15y)
 Adding (has-passed w14x w14y)
 Increasing (**total-cost**) (119.649) by 1.03188.
- 76:** Checking Happening... ...OK!
 Deleting (at-waypoint w15x w15y)
 Adding (at-waypoint w16x w16y)
 Adding (has-passed w15x w15y)
 Increasing (**total-cost**) (120.681) by 1.50419.
- 77:** Checking Happening... ...OK!
 Deleting (at-waypoint w16x w16y)

- Adding (at-waypoint w17x w17y)
 Adding (has-passed w16x w16y)
 Increasing (**total-cost**) (122.185) by 1.72576.
- 78:** Checking Happening... ...OK!
 Deleting (at-waypoint w17x w17y)
 Adding (at-waypoint w18x w18y)
 Adding (has-passed w17x w17y)
 Increasing (**total-cost**) (123.911) by 3.13671.
- 79:** Checking Happening... ...OK!
 Adding (radiation-registered w18x)
 Adding (radiation-registered w18y)
- 80:** Checking Happening... ...OK!
 Deleting (at-waypoint w18x w18y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w18x w18y)
 Increasing (**total-cost**) (127.048) by 6.02217.
- 81:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w8x w8y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (133.07) by 5.12411.
- 82:** Checking Happening... ...OK!
 Deleting (at-waypoint w8x w8y)
 Adding (at-waypoint w7x w7y)
 Adding (has-passed w8x w8y)
 Increasing (**total-cost**) (138.194) by 0.967463.
- 83:** Checking Happening... ...OK!
 Deleting (at-waypoint w7x w7y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w7x w7y)
 Increasing (**total-cost**) (139.161) by 0.99824.
- 84:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w5x w5y)

- Adding (has-passed w6x w6y)
Increasing (**total-cost**) (140.16) by 0.992962.
- 85:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w2x w2y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (141.153) by 2.616.
- 86:** Checking Happening... ...OK!
 Adding (radiation-registered w2x)
 Adding (radiation-registered w2y)
- 87:** Checking Happening... ...OK!
 Adding (has-inspected object1)
- 88:** Checking Happening... ...OK!
 Deleting (at-waypoint w2x w2y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w2x w2y)
 Increasing (**total-cost**) (143.769) by 2.616.
- 89:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (146.385) by 0.992962.
- 90:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (147.378) by 3.7346.
- 91:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w14x w14y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (151.112) by 6.46723.
- 92:** Checking Happening... ...OK!

- Adding (has-inspected object2)
- 93:** Checking Happening... ...OK!
 Deleting (at-waypoint w14x w14y)
 Adding (at-waypoint w15x w15y)
 Adding (has-passed w14x w14y)
 Increasing (**total-cost**) (157.579) by 1.03188.
- 94:** Checking Happening... ...OK!
 Deleting (at-waypoint w15x w15y)
 Adding (at-waypoint w16x w16y)
 Adding (has-passed w15x w15y)
 Increasing (**total-cost**) (158.611) by 1.50419.
- 95:** Checking Happening... ...OK!
 Deleting (at-waypoint w16x w16y)
 Adding (at-waypoint w17x w17y)
 Adding (has-passed w16x w16y)
 Increasing (**total-cost**) (160.116) by 1.72576.
- 96:** Checking Happening... ...OK!
 Deleting (at-waypoint w17x w17y)
 Adding (at-waypoint w18x w18y)
 Adding (has-passed w17x w17y)
 Increasing (**total-cost**) (161.841) by 3.13671.
- 97:** Checking Happening... ...OK!
 Adding (has-inspected object3)
- 98:** Checking Happening... ...OK!
 Deleting (at-waypoint w18x w18y)
 Adding (at-waypoint w19x w19y)
 Adding (has-passed w18x w18y)
 Increasing (**total-cost**) (164.978) by 3.46037.
- 99:** Checking Happening... ...OK!
 Deleting (at-waypoint w19x w19y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w19x w19y)
 Increasing (**total-cost**) (168.438) by 1.54684.

- 100:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (169.985) by 0.895911.
- 101:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (170.881) by 0.919689.
- 102:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (171.801) by 1.11541.
- 103:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (172.916) by 3.7346.
- 104:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (176.651) by 0.992962.
- 105:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w4x w4y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (177.644) by 0.895241.
- 106:** Checking Happening... ...OK!
 Deleting (at-waypoint w4x w4y)
 Adding (at-waypoint w3x w3y)
 Adding (has-passed w4x w4y)
 Increasing (**total-cost**) (178.539) by 1.03362.

107: Checking Happening... ...OK!
 Deleting (at-waypoint w3x w3y)
 Adding (at-waypoint w1x w1y)
 Adding (has-passed w3x w3y)
 Increasing (**total-cost**) (179.573) by 1.06016.

Plan executed successfully - checking goal

2.4 Primitive Numerical Expression Graphs

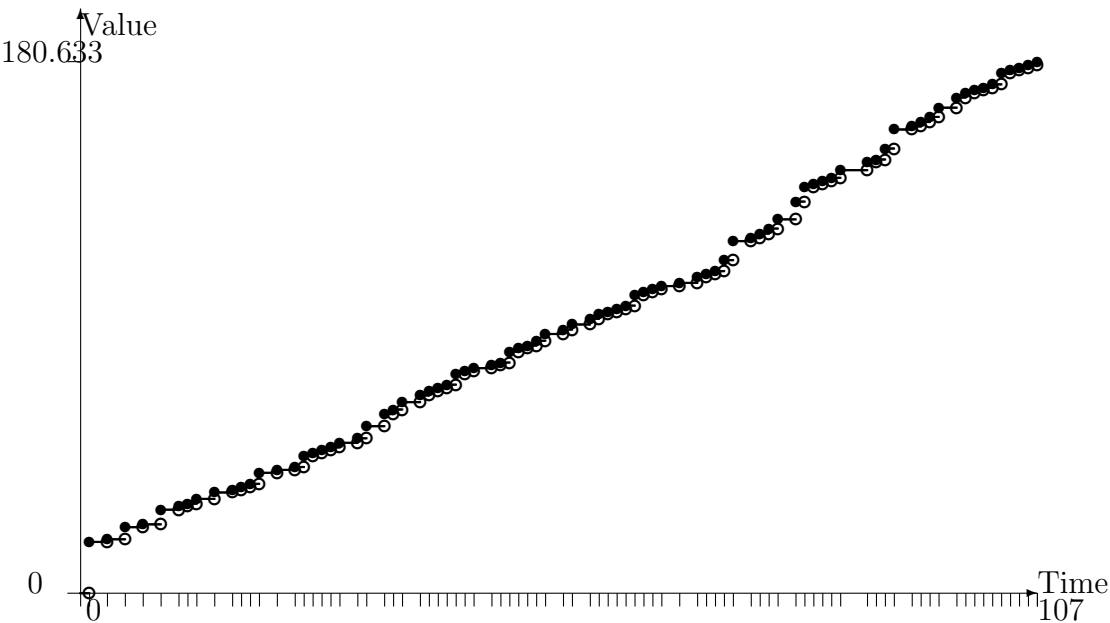


Figure 2.1: Graph of (total-cost).

2.5 Gantt Chart

Gantt Chart Key

Row 1

No	Time	Action
1	1	(move w1x w1y w12x w12y)
2	2	(register-radiation w12x w12y)
3	3	(move w12x w12y w11x w11y)
4	4	(register-radiation w11x w11y)
5	5	(move w11x w11y w8x w8y)
6	6	(register-radiation w8x w8y)
7	7	(move w8x w8y w7x w7y)
8	8	(register-radiation w7x w7y)
9	9	(move w7x w7y w13x w13y)
10	10	(register-radiation w13x w13y)
11	11	(move w13x w13y w12x w12y)
12	12	(move w12x w12y w11x w11y)
13	13	(move w11x w11y w20x w20y)
14	14	(register-radiation w20x w20y)
15	15	(move w20x w20y w10x w10y)
16	16	(register-radiation w10x w10y)
17	17	(move w10x w10y w11x w11y)
18	18	(move w11x w11y w12x w12y)
19	19	(move w12x w12y w13x w13y)
20	20	(move w13x w13y w6x w6y)
21	21	(register-radiation w6x w6y)
22	22	(move w6x w6y w5x w5y)
23	23	(register-radiation w5x w5y)
24	24	(move w5x w5y w6x w6y)
25	25	(move w6x w6y w13x w13y)
26	26	(move w13x w13y w12x w12y)
27	27	(move w12x w12y w11x w11y)
28	28	(move w11x w11y w10x w10y)
29	29	(move w10x w10y w19x w19y)
30	30	(register-radiation w19x w19y)
31	31	(move w19x w19y w10x w10y)
32	32	(move w10x w10y w9x w9y)
33	33	(register-radiation w9x w9y)
34	34	(move w9x w9y w10x w10y)
35	35	(move w10x w10y w19x w19y)
36	36	(move w19x w19y w16x w16y)
37	37	(register-radiation w16x w16y)
38	38	(move w16x w16y w20x w20y)
39	39	(move w20x w20y w11x w11y)
40	40	(move w11x w11y w12x w12y)

41	41	(move w12x w12y w13x w13y)
42	42	(move w13x w13y w6x w6y)
43	43	(move w6x w6y w5x w5y)
44	44	(move w5x w5y w4x w4y)
45	45	(register-radiation w4x w4y)
46	46	(move w4x w4y w5x w5y)
47	47	(move w5x w5y w6x w6y)
48	48	(move w6x w6y w13x w13y)
49	49	(move w13x w13y w12x w12y)
50	50	(move w12x w12y w11x w11y)
51	51	(move w11x w11y w20x w20y)
52	52	(move w20x w20y w15x w15y)
53	53	(register-radiation w15x w15y)
54	54	(move w15x w15y w16x w16y)
55	55	(move w16x w16y w17x w17y)
56	56	(register-radiation w17x w17y)
57	57	(move w17x w17y w19x w19y)
58	58	(move w19x w19y w10x w10y)
59	59	(move w10x w10y w11x w11y)
60	60	(move w11x w11y w12x w12y)
61	61	(move w12x w12y w13x w13y)
62	62	(move w13x w13y w6x w6y)
63	63	(move w6x w6y w5x w5y)
64	64	(move w5x w5y w4x w4y)
65	65	(move w4x w4y w3x w3y)
66	66	(register-radiation w3x w3y)
67	67	(move w3x w3y w1x w1y)
68	68	(register-radiation w1x w1y)
69	69	(move w1x w1y w4x w4y)
70	70	(move w4x w4y w5x w5y)
71	71	(move w5x w5y w6x w6y)
72	72	(move w6x w6y w13x w13y)
73	73	(move w13x w13y w14x w14y)
74	74	(register-radiation w14x w14y)
75	75	(move w14x w14y w15x w15y)
76	76	(move w15x w15y w16x w16y)
77	77	(move w16x w16y w17x w17y)
78	78	(move w17x w17y w18x w18y)
79	79	(register-radiation w18x w18y)
80	80	(move w18x w18y w10x w10y)
81	81	(move w10x w10y w8x w8y)

82	82	(move w8x w8y w7x w7y)
83	83	(move w7x w7y w6x w6y)
84	84	(move w6x w6y w5x w5y)
85	85	(move w5x w5y w2x w2y)
86	86	(register-radiation w2x w2y)
87	87	(inspect w2x w2y object1)
88	88	(move w2x w2y w5x w5y)
89	89	(move w5x w5y w6x w6y)
90	90	(move w6x w6y w13x w13y)
91	91	(move w13x w13y w14x w14y)
92	92	(inspect w14x w14y object2)
93	93	(move w14x w14y w15x w15y)
94	94	(move w15x w15y w16x w16y)
95	95	(move w16x w16y w17x w17y)
96	96	(move w17x w17y w18x w18y)
97	97	(inspect w18x w18y object3)
98	98	(move w18x w18y w19x w19y)
99	99	(move w19x w19y w10x w10y)
100	100	(move w10x w10y w11x w11y)
101	101	(move w11x w11y w12x w12y)
102	102	(move w12x w12y w13x w13y)
103	103	(move w13x w13y w6x w6y)
104	104	(move w6x w6y w5x w5y)
105	105	(move w5x w5y w4x w4y)
106	106	(move w4x w4y w3x w3y)
107	107	(move w3x w3y w1x w1y)

3 Plan: plans/plan26-01-08-metricff-parsingtest-ValParsed

3.1 Plan

Plan size: 43

Time	Action
1:	(register-radiation w1x w1y)
2:	(move w1x w1y w20x w20y)
3:	(register-radiation w20x w20y)

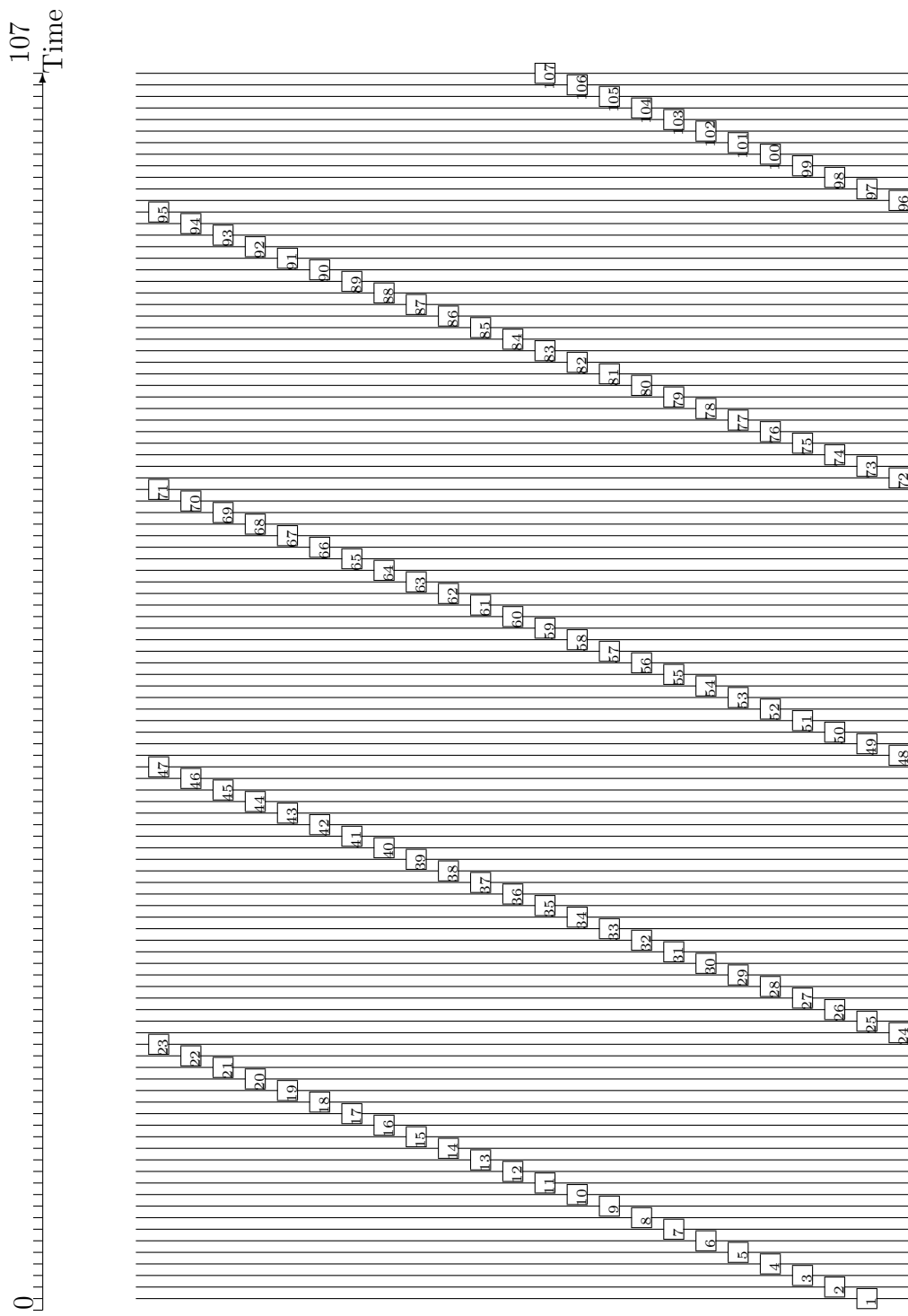


Figure 2.2: Gantt Chart

```

4:      (move w20x w20y w19x w19y)
5:      (register-radiation w19x w19y)
6:      (move w19x w19y w17x w17y)
7:      (register-radiation w17x w17y)
8:      (move w17x w17y w16x w16y)
9:      (register-radiation w16x w16y)
10:     (move w16x w16y w15x w15y)
11:     (register-radiation w15x w15y)
12:     (move w15x w15y w13x w13y)
13:     (register-radiation w13x w13y)
14:     (move w13x w13y w12x w12y)
15:     (register-radiation w12x w12y)
16:     (move w12x w12y w11x w11y)
17:     (register-radiation w11x w11y)
18:     (move w11x w11y w10x w10y)
19:     (register-radiation w10x w10y)
20:     (move w10x w10y w9x w9y)
21:     (register-radiation w9x w9y)
22:     (move w9x w9y w8x w8y)
23:     (register-radiation w8x w8y)
24:     (move w8x w8y w7x w7y)
25:     (register-radiation w7x w7y)
26:     (move w7x w7y w6x w6y)
27:     (register-radiation w6x w6y)
28:     (move w6x w6y w5x w5y)
29:     (register-radiation w5x w5y)
30:     (move w5x w5y w4x w4y)
31:     (register-radiation w4x w4y)
32:     (move w4x w4y w3x w3y)
33:     (register-radiation w3x w3y)
34:     (move w3x w3y w18x w18y)
35:     (register-radiation w18x w18y)
36:     (inspect w18x w18y object3)
37:     (move w18x w18y w14x w14y)
38:     (register-radiation w14x w14y)
39:     (inspect w14x w14y object2)
40:     (move w14x w14y w2x w2y)
41:     (register-radiation w2x w2y)
42:     (inspect w2x w2y object1)
43:     (move w2x w2y w1x w1y)

```

3.2 Plan To Validate

Time	Happening
1:	(register-radiation w1x w1y)
2:	(move w1x w1y w20x w20y)
3:	(register-radiation w20x w20y)
4:	(move w20x w20y w19x w19y)
5:	(register-radiation w19x w19y)
6:	(move w19x w19y w17x w17y)
7:	(register-radiation w17x w17y)
8:	(move w17x w17y w16x w16y)
9:	(register-radiation w16x w16y)
10:	(move w16x w16y w15x w15y)
11:	(register-radiation w15x w15y)
12:	(move w15x w15y w13x w13y)
13:	(register-radiation w13x w13y)
14:	(move w13x w13y w12x w12y)
15:	(register-radiation w12x w12y)
16:	(move w12x w12y w11x w11y)
17:	(register-radiation w11x w11y)
18:	(move w11x w11y w10x w10y)
19:	(register-radiation w10x w10y)

20: (move w10x w10y w9x w9y)
21: (register-radiation w9x w9y)
22: (move w9x w9y w8x w8y)
23: (register-radiation w8x w8y)
24: (move w8x w8y w7x w7y)
25: (register-radiation w7x w7y)
26: (move w7x w7y w6x w6y)
27: (register-radiation w6x w6y)
28: (move w6x w6y w5x w5y)
29: (register-radiation w5x w5y)
30: (move w5x w5y w4x w4y)
31: (register-radiation w4x w4y)
32: (move w4x w4y w3x w3y)
33: (register-radiation w3x w3y)
34: (move w3x w3y w18x w18y)
35: (register-radiation w18x w18y)
36: (inspect w18x w18y object3)
37: (move w18x w18y w14x w14y)
38: (register-radiation w14x w14y)
39: (inspect w14x w14y object2)
40: (move w14x w14y w2x w2y)

- 41: (register-radiation w2x w2y)
- 42: (inspect w2x w2y object1)
- 43: (move w2x w2y w1x w1y)

3.3 Plan Validation

Time	Details
------	---------

- | | |
|----|--|
| 1: | Checking Happening... ...OK!
Adding (radiation-registered w1x)
Adding (radiation-registered w1y) |
| 2: | Checking Happening... ...OK!
Deleting (at-waypoint w1x w1y)
Adding (at-waypoint w20x w20y)
Adding (has-passed w1x w1y)
Increasing (total-cost) (0) by 32.929. |
| 3: | Checking Happening... ...OK!
Adding (radiation-registered w20x)
Adding (radiation-registered w20y) |
| 4: | Checking Happening... ...OK!
Deleting (at-waypoint w20x w20y)
Adding (at-waypoint w19x w19y)
Adding (has-passed w20x w20y)
Increasing (total-cost) (32.929) by 1.31033. |
| 5: | Checking Happening... ...OK!
Adding (radiation-registered w19x)
Adding (radiation-registered w19y) |
| 6: | Checking Happening... ...OK!
Deleting (at-waypoint w19x w19y)
Adding (at-waypoint w17x w17y)
Adding (has-passed w19x w19y) |

- Increasing (**total-cost**) (34.2393) by 1.92815.
- 7:** Checking Happening... ...OK!
 Adding (radiation-registered w17x)
 Adding (radiation-registered w17y)
- 8:** Checking Happening... ...OK!
 Deleting (at-waypoint w17x w17y)
 Adding (at-waypoint w16x w16y)
 Adding (has-passed w17x w17y)
 Increasing (**total-cost**) (36.1674) by 1.72576.
- 9:** Checking Happening... ...OK!
 Adding (radiation-registered w16x)
 Adding (radiation-registered w16y)
- 10:** Checking Happening... ...OK!
 Deleting (at-waypoint w16x w16y)
 Adding (at-waypoint w15x w15y)
 Adding (has-passed w16x w16y)
 Increasing (**total-cost**) (37.8932) by 1.50419.
- 11:** Checking Happening... ...OK!
 Adding (radiation-registered w15x)
 Adding (radiation-registered w15y)
- 12:** Checking Happening... ...OK!
 Deleting (at-waypoint w15x w15y)
 Adding (at-waypoint w13x w13y)
 Adding (has-passed w15x w15y)
 Increasing (**total-cost**) (39.3974) by 9.10932.
- 13:** Checking Happening... ...OK!
 Adding (radiation-registered w13x)
 Adding (radiation-registered w13y)
- 14:** Checking Happening... ...OK!
 Deleting (at-waypoint w13x w13y)
 Adding (at-waypoint w12x w12y)
 Adding (has-passed w13x w13y)
 Increasing (**total-cost**) (48.5067) by 1.11541.

- 15:** Checking Happening... ...OK!
 Adding (radiation-registered w12x)
 Adding (radiation-registered w12y)
- 16:** Checking Happening... ...OK!
 Deleting (at-waypoint w12x w12y)
 Adding (at-waypoint w11x w11y)
 Adding (has-passed w12x w12y)
 Increasing (**total-cost**) (49.6221) by 0.919689.
- 17:** Checking Happening... ...OK!
 Adding (radiation-registered w11x)
 Adding (radiation-registered w11y)
- 18:** Checking Happening... ...OK!
 Deleting (at-waypoint w11x w11y)
 Adding (at-waypoint w10x w10y)
 Adding (has-passed w11x w11y)
 Increasing (**total-cost**) (50.5418) by 0.895911.
- 19:** Checking Happening... ...OK!
 Adding (radiation-registered w10x)
 Adding (radiation-registered w10y)
- 20:** Checking Happening... ...OK!
 Deleting (at-waypoint w10x w10y)
 Adding (at-waypoint w9x w9y)
 Adding (has-passed w10x w10y)
 Increasing (**total-cost**) (51.4377) by 4.11639.
- 21:** Checking Happening... ...OK!
 Adding (radiation-registered w9x)
 Adding (radiation-registered w9y)
- 22:** Checking Happening... ...OK!
 Deleting (at-waypoint w9x w9y)
 Adding (at-waypoint w8x w8y)
 Adding (has-passed w9x w9y)
 Increasing (**total-cost**) (55.5541) by 1.23291.

- 23:** Checking Happening... ...OK!
 Adding (radiation-registered w8x)
 Adding (radiation-registered w8y)
- 24:** Checking Happening... ...OK!
 Deleting (at-waypoint w8x w8y)
 Adding (at-waypoint w7x w7y)
 Adding (has-passed w8x w8y)
 Increasing (**total-cost**) (56.787) by 0.967463.
- 25:** Checking Happening... ...OK!
 Adding (radiation-registered w7x)
 Adding (radiation-registered w7y)
- 26:** Checking Happening... ...OK!
 Deleting (at-waypoint w7x w7y)
 Adding (at-waypoint w6x w6y)
 Adding (has-passed w7x w7y)
 Increasing (**total-cost**) (57.7545) by 0.99824.
- 27:** Checking Happening... ...OK!
 Adding (radiation-registered w6x)
 Adding (radiation-registered w6y)
- 28:** Checking Happening... ...OK!
 Deleting (at-waypoint w6x w6y)
 Adding (at-waypoint w5x w5y)
 Adding (has-passed w6x w6y)
 Increasing (**total-cost**) (58.7527) by 0.992962.
- 29:** Checking Happening... ...OK!
 Adding (radiation-registered w5x)
 Adding (radiation-registered w5y)
- 30:** Checking Happening... ...OK!
 Deleting (at-waypoint w5x w5y)
 Adding (at-waypoint w4x w4y)
 Adding (has-passed w5x w5y)
 Increasing (**total-cost**) (59.7457) by 0.895241.
- 31:** Checking Happening... ...OK!

- Adding (radiation-registered w4x)
Adding (radiation-registered w4y)
- 32:** Checking Happening... ...OK!
 Deleting (at-waypoint w4x w4y)
 Adding (at-waypoint w3x w3y)
 Adding (has-passed w4x w4y)
 Increasing (**total-cost**) (60.6409) by 1.03362.
- 33:** Checking Happening... ...OK!
 Adding (radiation-registered w3x)
 Adding (radiation-registered w3y)
- 34:** Checking Happening... ...OK!
 Deleting (at-waypoint w3x w3y)
 Adding (at-waypoint w18x w18y)
 Adding (has-passed w3x w3y)
 Increasing (**total-cost**) (61.6745) by 64.0915.
- 35:** Checking Happening... ...OK!
 Adding (radiation-registered w18x)
 Adding (radiation-registered w18y)
- 36:** Checking Happening... ...OK!
 Adding (has-inspected object3)
- 37:** Checking Happening... ...OK!
 Deleting (at-waypoint w18x w18y)
 Adding (at-waypoint w14x w14y)
 Adding (has-passed w18x w18y)
 Increasing (**total-cost**) (125.766) by 23.9921.
- 38:** Checking Happening... ...OK!
 Adding (radiation-registered w14x)
 Adding (radiation-registered w14y)
- 39:** Checking Happening... ...OK!
 Adding (has-inspected object2)
- 40:** Checking Happening... ...OK!
 Deleting (at-waypoint w14x w14y)

- Adding (at-waypoint w2x w2y)
 Adding (has-passed w14x w14y)
 Increasing (**total-cost**) (149.758) by 29.7654.
- 41:** Checking Happening... ...OK!
 Adding (radiation-registered w2x)
 Adding (radiation-registered w2y)
- 42:** Checking Happening... ...OK!
 Adding (has-inspected object1)
- 43:** Checking Happening... ...OK!
 Deleting (at-waypoint w2x w2y)
 Adding (at-waypoint w1x w1y)
 Adding (has-passed w2x w2y)
 Increasing (**total-cost**) (179.524) by 10.6317.

Plan executed successfully - checking goal

3.4 Primitive Numerical Expression Graphs

3.5 Gantt Chart

Gantt Chart Key

Row 1

No	Time	Action
1	1	(register-radiation w1x w1y)
2	2	(move w1x w1y w20x w20y)
3	3	(register-radiation w20x w20y)
4	4	(move w20x w20y w19x w19y)
5	5	(register-radiation w19x w19y)
6	6	(move w19x w19y w17x w17y)
7	7	(register-radiation w17x w17y)
8	8	(move w17x w17y w16x w16y)
9	9	(register-radiation w16x w16y)
10	10	(move w16x w16y w15x w15y)
11	11	(register-radiation w15x w15y)
12	12	(move w15x w15y w13x w13y)

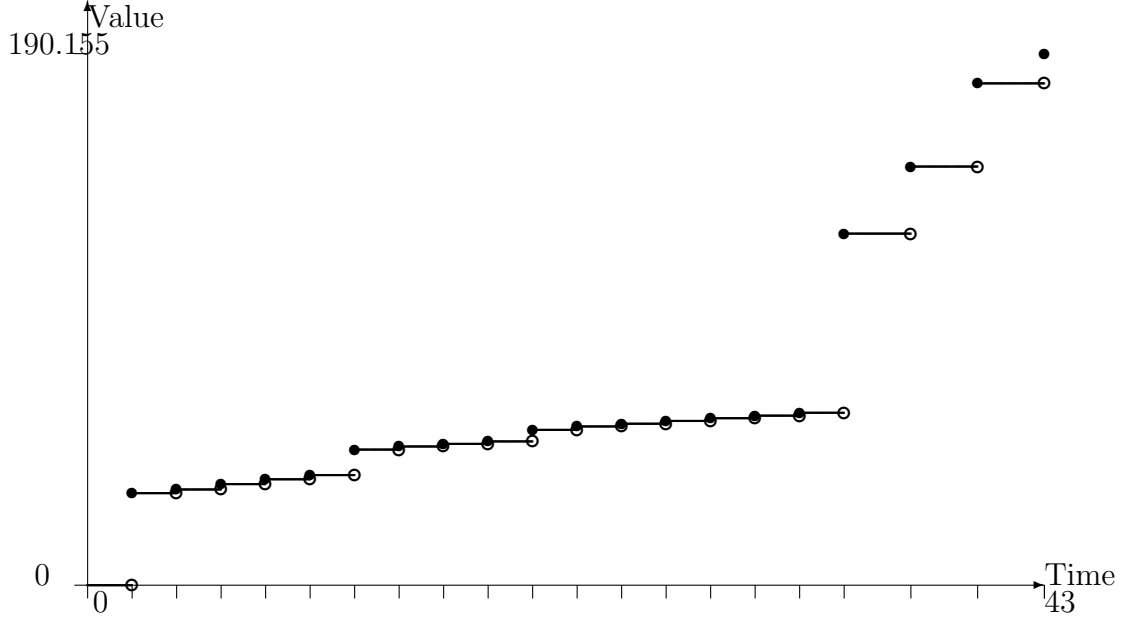


Figure 3.1: Graph of (total-cost).

13	13	(register-radiation w13x w13y)
14	14	(move w13x w13y w12x w12y)
15	15	(register-radiation w12x w12y)
16	16	(move w12x w12y w11x w11y)
17	17	(register-radiation w11x w11y)
18	18	(move w11x w11y w10x w10y)
19	19	(register-radiation w10x w10y)
20	20	(move w10x w10y w9x w9y)
21	21	(register-radiation w9x w9y)
22	22	(move w9x w9y w8x w8y)
23	23	(register-radiation w8x w8y)
24	24	(move w8x w8y w7x w7y)
25	25	(register-radiation w7x w7y)
26	26	(move w7x w7y w6x w6y)
27	27	(register-radiation w6x w6y)
28	28	(move w6x w6y w5x w5y)
29	29	(register-radiation w5x w5y)
30	30	(move w5x w5y w4x w4y)
31	31	(register-radiation w4x w4y)
32	32	(move w4x w4y w3x w3y)

33	33	(register-radiation w3x w3y)
34	34	(move w3x w3y w18x w18y)
35	35	(register-radiation w18x w18y)
36	36	(inspect w18x w18y object3)
37	37	(move w18x w18y w14x w14y)
38	38	(register-radiation w14x w14y)
39	39	(inspect w14x w14y object2)
40	40	(move w14x w14y w2x w2y)
41	41	(register-radiation w2x w2y)
42	42	(inspect w2x w2y object1)
43	43	(move w2x w2y w1x w1y)

4 Successful Plans

Value	Plan
180.633	plans/plan26-01-08-enhsp 180.633
190.155	plans/plan26-01-08-metricff-parsingtest-ValParsed 190.155

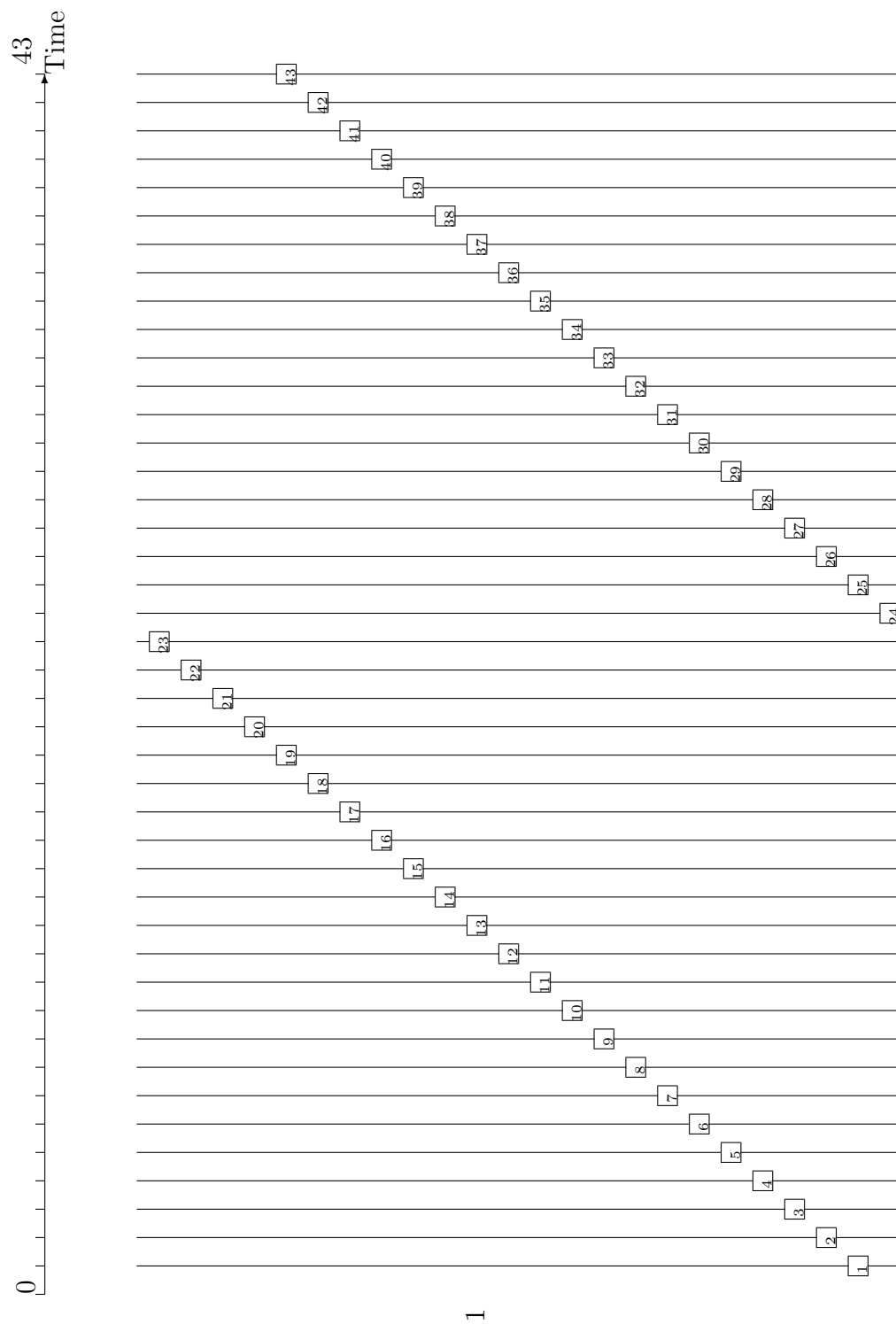


Figure 3.2: Gantt Chart