

Call 7 Vehicle 3				
	Average objective	Best objective	Improvement (%)	Running time (s)
Random Search	1977054.4	1851768.0	43.65	0.1
Local Search	1531375.5	1477429.0	55.04	0.12
Simulated Annealing	1531375.5	1477429.0	55.04	0.13

Best solution found with Random Search

[1, 1, 0, 0, 5, 5, 6, 6, 0, 3, 2, 2, 3, 4, 4, 7, 7]

Best solution found with Local Search

[3, 3, 0, 7, 7, 1, 1, 0, 5, 5, 6, 6, 0, 2, 2, 4, 4]

Best solution found with Simulated Annealing

[3, 3, 0, 7, 7, 1, 1, 0, 5, 5, 6, 6, 0, 2, 2, 4, 4]

Call 18 Vehicle 5				
	Average objective	Best objective	Improvement (%)	Running time (s)
Random Search	7039433.7	5792619.0	33.89	0.16
Local Search	3894102.7	3483990.0	60.24	0.22
Simulated Annealing	3866492.3	3727829.0	57.45	0.23

Best solution found with Random Search

[0, 10, 10, 3, 3, 0, 16, 16, 9, 9, 0, 18, 18, 0, 12, 14, 14, 12, 0, 6, 11, 7, 1, 6, 8, 17, 7, 2, 1, 11, 17, 4, 8, 13, 15, 2, 4, 5, 15, 13, 5]

Best solution found with Local Search

[4, 4, 3, 3, 0, 15, 15, 11, 11, 10, 10, 9, 9, 0, 16, 16, 14, 14, 0, 12, 12, 8, 8, 0, 5, 5, 1, 1, 7, 7, 2, 2, 0, 13, 13, 6, 6, 18, 18, 17, 17]

Best solution found with Simulated Annealing

[4, 4, 3, 3, 0, 15, 15, 16, 16, 10, 10, 9, 9, 0, 11, 11, 8, 8, 0, 12, 12, 14, 14, 0, 5, 5, 1, 1, 2, 2, 0, 13, 13, 17, 17, 7, 7, 18, 18, 6, 6]

Call 35 Vehicle 7				
	Average objective	Best objective	Improvement (%)	Running time (s)
Random Search	18114779.4	16248192.0	11.32	0.24
Local Search	9846322.7	8821467.0	51.85	0.33
Simulated Annealing	10438207.0	9545304.0	47.9	0.33

Best solution found with Random Search

[0, 17, 17, 0, 31, 9, 9, 31, 0, 21, 21, 0, 0, 25, 25, 0, 8, 8, 0, 11, 22, 5, 32, 35, 3, 15, 28, 10, 3, 34, 12, 14, 2, 16, 27, 35, 1, 16, 22, 33, 24, 13, 2, 6, 4, 15, 13, 18, 23, 30, 20, 20, 5, 23, 14, 7, 29, 27, 11, 33, 4, 30, 26, 12, 19, 6, 32, 24, 7, 18, 29, 34, 19, 1, 26, 10, 28]

Best solution found with Local Search

[21, 21, 22, 22, 33, 33, 26, 26, 0, 23, 23, 8, 8, 2, 2, 0, 12, 12, 18, 18, 0, 25, 25, 32, 32, 4, 4, 0, 19, 19, 10, 10, 27, 27, 0, 7, 7, 17, 17, 30, 30, 20, 20, 0, 28, 28, 13, 13, 29, 29, 31, 31, 0, 35, 35, 6, 6, 9, 9, 14, 14, 11, 11, 15, 15, 1, 1, 34, 34, 5, 5, 3, 3, 16, 16, 24, 24]

Best solution found with Simulated Annealing

[21, 21, 22, 22, 0, 23, 23, 33, 33, 4, 4, 0, 7, 7, 17, 17, 10, 10, 2, 2, 0, 25, 25, 31, 31, 0, 19, 19, 30, 30, 26, 26, 0, 12, 12, 18, 18, 20, 20, 27, 27, 0, 28, 28, 13, 13, 8, 8, 0, 24, 24, 1, 1, 34, 34, 5, 5, 32, 32, 6, 6, 14, 14, 3, 3, 16, 16, 15, 15, 35, 35, 9, 9, 11, 11, 29, 29]

Call 80 Vehicle 20				
	Average objective	Best objective	Improvement (%)	Running time (s)
Random Search	42211425.0	42211425.0	0.0	0.56
Local Search	20918229.2	19810961.0	53.07	0.81
Simulated Annealing	20235612.8	19259583.0	54.37	0.83

Best solution found with Random Search

[0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 1, 1, 2, 2, 3, 3, 4, 4, 5, 5, 6, 6, 7, 7, 8, 8, 9, 9, 10, 10, 11, 11, 12, 12, 13, 13, 14, 14, 15, 15, 16, 16, 17, 17, 18, 18, 19, 19, 20, 20, 21, 21, 22, 22, 23, 23, 24, 24, 25, 25, 26, 26, 27, 27, 28, 28, 29, 29, 30, 30, 31, 31, 32, 32, 33, 33, 34, 34, 35, 35, 36, 36, 37, 37, 38, 38, 39, 39, 40, 40, 41, 41, 42, 42, 43, 43, 44, 44, 45, 45, 46, 46, 47, 47, 48, 48, 49, 49, 50, 50, 51, 51, 52, 52, 53, 53, 54, 54, 55, 55, 56, 56, 57, 57, 58, 58, 59, 59, 60, 60, 61, 61, 62, 62, 63, 63, 64, 64, 65, 65, 66, 66, 67, 67, 68, 68, 69, 69, 70, 70, 71, 71, 72, 72, 73, 73, 74, 74, 75, 75, 76, 76, 77, 77, 78, 78, 79, 79, 80, 80]

Best solution found with Local Search

[61, 61, 35, 35, 1, 1, 0, 55, 55, 19, 19, 0, 34, 34, 12, 12, 64, 64, 0, 50, 50, 37, 37, 5, 5, 65, 65, 0, 4, 4, 22, 22, 8, 8, 0, 57, 57, 60, 60, 73, 73, 0, 74, 74, 75, 75, 0, 26, 26, 29, 29, 10, 10, 0, 53, 53, 51, 51, 0, 67, 67, 54, 54, 70, 70, 18, 18, 0, 33, 33, 14, 14, 42, 42, 0, 47, 47, 36, 36, 38, 38, 0, 68, 68, 39, 39, 21, 21, 41, 41, 0, 3, 3, 15, 15, 0, 46, 46, 6, 6, 0, 49, 49, 0, 69, 69, 32, 32, 23, 23, 25, 25, 0, 16, 16, 56, 56, 76, 76, 43, 43, 0, 72, 72, 45, 45, 0, 66, 66, 44, 44, 0, 40, 40, 52, 52, 24, 24, 28, 28, 9, 9, 59, 59, 78, 78, 11, 11, 13, 13, 7, 7, 63, 63, 2, 2, 30, 30, 31, 31, 17, 17, 77, 77, 20, 20, 27, 27, 80, 80, 79, 79, 48, 48, 58, 58, 71, 71, 62, 62]

Best solution found with Simulated Annealing

[74, 74, 0, 47, 47, 36, 36, 7, 7, 6, 6, 0, 66, 66, 5, 5, 10, 10, 0, 55, 55, 39, 39, 21, 21, 18, 18, 0, 34, 34, 29, 29, 51, 51, 65, 65, 0, 37, 37, 38, 38, 0, 68, 68, 22, 22, 42, 42, 35, 35, 0, 26, 26, 12, 12, 19, 19, 0, 53, 53, 31, 31, 75, 75, 0, 57, 57, 14, 14, 73, 73, 0, 4, 4, 0, 80, 80, 60, 60, 41, 41, 0, 3, 3, 44, 44, 0, 50, 50, 61, 61, 1, 1, 0, 49, 49, 56, 56, 76, 76, 0, 33, 33, 23, 23, 25, 25, 0, 46, 46, 0, 77, 77, 54, 54, 70, 70, 45, 45, 0, 72, 72, 27, 27, 64, 64, 0, 62, 62, 16, 16, 15, 15, 0, 79, 79, 17, 17, 20, 20, 48, 48, 24, 24, 32, 32, 69, 69, 28, 28, 63, 63, 58, 58, 78, 78, 2, 2, 43, 43, 8, 8, 11, 11, 30, 30, 59, 59, 71, 71, 9, 9, 40, 40, 52, 52, 67, 67, 13, 13]

Call 130 Vehicle 40				
	Average objective	Best objective	Improvement (%)	Running time (s)
Random Search	75446687.0	75446687.0	0.0	0.95
Local Search	33429275.1	32125570.0	57.42	1.45
Simulated Annealing	33219287.4	31618987.0	58.09	1.48

[illegible]

[39, 39, 119, 119, 0, 122, 122, 1, 1, 0, 18, 18, 14, 14, 0, 91, 91, 20, 20, 36, 36, 0, 84, 84, 80, 80, 10, 10, 0, 120, 120, 102, 102, 55, 55, 0, 48, 48, 54, 54, 106, 106, 0, 111, 111, 38, 38, 0, 82, 82, 41, 41, 129, 129, 0, 58, 58, 117, 117, 24, 24, 0, 73, 73, 98, 98, 53, 53, 0, 61, 61, 0, 96, 96, 31, 31, 0, 107, 107, 2, 2, 40, 40, 0, 37, 37, 116, 116, 100, 100, 0, 28, 28, 27, 27, 8, 8, 0, 108, 108, 59, 59, 0, 74, 74, 124, 124, 0, 89, 89, 72, 72, 42, 42, 4, 4, 0, 26, 26, 75, 75, 0, 94, 94, 22, 22, 45, 45, 0, 7, 7, 99, 99, 0, 76, 76, 81, 81, 0, 21, 21, 0, 32, 32, 110, 110, 0, 25, 25, 44, 44, 3, 3, 0, 47, 47, 101, 101, 0, 123, 123, 0, 12, 12, 88, 88, 0, 126, 126, 87, 87, 85, 85, 0, 77, 77, 93, 93, 130, 130, 113, 113, 0, 50, 50, 69, 69, 86, 86, 70, 70, 0, 52, 52, 5, 5, 0, 49, 49, 105, 105, 95, 95, 0, 90, 90, 125, 125, 0, 118, 118, 78, 78, 46, 46, 0, 114, 114, 0, 121, 121, 128, 128, 0, 34, 34, 92, 92, 0, 16, 16, 0, 6, 6, 103, 103, 112, 112, 68, 68, 17, 17, 13, 13, 97, 97, 51, 51, 109, 109, 60, 60, 62, 62, 64, 64, 30, 30, 83, 83, 23, 23, 71, 71, 65, 65, 63, 63, 57, 57, 9, 9, 66, 66, 115, 115, 79, 79, 11, 11, 56, 56, 29, 29, 15, 15, 33, 33, 35, 35, 43, 43, 19, 19, 67, 67, 104, 104, 127, 127]

[114, 114, 78, 78, 0, 120, 120, 102, 102, 66, 66, 124, 124, 0, 7, 7, 97, 97, 4, 4, 0, 108, 108, 59, 59, 19, 19, 0, 26, 26, 2, 2, 0, 91, 91, 81, 81, 0, 58, 58, 68, 68, 42, 42, 10, 10, 0, 18, 18, 75, 75, 0, 94, 94, 80, 80, 14, 14, 0, 82, 82, 55, 55, 40, 40, 0, 103, 103, 28, 28, 117, 117, 0, 37, 37, 130, 130, 0, 39, 39, 22, 22, 27, 27, 0, 93, 93, 5, 5, 0, 73, 73, 106, 106, 0, 34, 34, 0, 96, 96, 38, 38, 0, 48, 48, 41, 41, 0, 43, 43, 54, 54, 100, 100, 0, 83, 83, 116, 116, 0, 32, 32, 36, 36, 0, 123, 123, 98, 98, 88, 88, 0, 76, 76, 126, 126, 105, 105, 0, 49, 49, 24, 24, 0, 16, 16, 113, 113, 0, 77, 77, 63, 63, 110, 110, 0, 107, 107, 0, 50, 50, 45, 45, 0, 89, 89, 56, 56, 85, 85, 0, 92, 92, 3, 3, 0, 33, 33, 69, 69, 8, 8, 0, 74, 74, 87, 87, 46, 46, 0, 115, 115, 15, 15, 0, 111, 111, 70, 70, 0, 61, 61, 0, 52, 52, 95, 95, 0, 25, 25, 99, 99, 0, 121, 121, 44, 44, 125, 125, 0, 84, 84, 12, 12, 53, 53, 0, 90, 90, 101, 101, 129, 129, 0, 31, 31, 118, 118, 128, 128, 79, 79, 109, 109, 17, 17, 64, 64, 65, 65, 71, 71, 29, 29, 119, 119, 35, 35, 13, 13, 11, 11, 62, 62, 112, 112, 51, 51, 47, 47, 6, 6, 9, 9, 23, 23, 30, 30, 67, 67, 57, 57, 1, 1, 104, 104, 21, 21, 60, 60, 122, 122, 127, 127, 20, 20, 72, 72, 86, 86]