

# New Best-So-Far Solutions for Taillard's benchmark (Capacitated VRP)

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Table 1

New best solution for instance **ta-n76-k10b**.

	Number of routes	10
	Total solution distance	1344.6186241386285
Route 1	Capacity	1654
	Distance	258.5993825897365
	Visited customers	73, 9, 11, 68, 54, 55, 60, 57, 56, 59, 61, 58, 67, 69, 35
Route 2	Capacity	1659
	Distance	174.46520984752948
	Visited customers	39, 22, 15, 17, 31, 46, 45, 13
Route 3	Capacity	1590
	Distance	72.761072402546
	Visited customers	12, 42, 49, 47
Route 4	Capacity	1594
	Distance	321.3083147478987
	Visited customers	7, 72, 62, 65, 66, 63, 64, 52
Route 5	Capacity	1219
	Distance	13.508270432752166
	Visited customers	6, 10, 0
Route 6	Capacity	1677
	Distance	214.36282712025178
	Visited customers	25, 33, 23, 16, 30, 27, 34, 24, 28, 19, 26, 20, 21, 29, 32
Route 7	Capacity	1617
	Distance	90.52827230772104
	Visited customers	50, 38, 41, 53, 48, 36, 43, 5
Route 8	Capacity	1547
	Distance	32.385178886685395
	Visited customers	1, 4, 74, 71, 14, 8
Route 9	Capacity	687
	Distance	6.0
	Visited customers	3
Route 10	Capacity	1662
	Distance	160.7000958035075
	Visited customers	2, 51, 37, 18, 44, 40, 70

Table 2

New best solution for instance **ta-n101-k11b**.

Number of routes		11
Total solution distance		1940.3568287958549
Route 1	Capacity	1817
	Distance	230.27850050984785
	Visited customers	62, 56, 48, 47, 36, 31, 33, 40, 39, 41, 28, 30, 67, 58, 44, 29, 60
Route 2	Capacity	1820
	Distance	222.6646274665028
	Visited customers	16, 4, 3, 5, 10, 1, 2, 9, 8, 6, 0, 7, 21, 27
Route 3	Capacity	1748
	Distance	222.2551780101707
	Visited customers	17, 96, 91, 88, 94, 98, 95, 89, 93
Route 4	Capacity	1823
	Distance	162.17838712371818
	Visited customers	64, 66, 50, 87, 84, 86, 82, 81, 85, 83, 13, 15
Route 5	Capacity	1823
	Distance	189.47148208829344
	Visited customers	53, 49, 32, 46, 37, 42, 34, 38, 78, 79, 51
Route 6	Capacity	1822
	Distance	191.66845817249603
	Visited customers	52, 55, 80, 76, 77, 69, 71, 72, 70
Route 7	Capacity	1834
	Distance	128.3446877481935
	Visited customers	12, 11, 97, 99, 26
Route 8	Capacity	1783
	Distance	140.99902299848813
	Visited customers	20, 18, 92, 90, 23
Route 9	Capacity	1830
	Distance	160.87572347033327
	Visited customers	65, 68, 59, 35, 45, 54, 43, 63, 57
Route 10	Capacity	1775
	Distance	199.20330215963585
	Visited customers	22, 14, 73, 74, 75, 24
Route 11	Capacity	1428
	Distance	92.41745904817546
	Visited customers	19, 61, 25