

File	NNH	NNH + 2-opt	NNH + Node Shift	NNH + Node Swap
a280_out.tsp	3406.3	2768.37	3101.55	2937.93
berlin52_out.tsp	22263	8302.1	8183.43	10513.4
bier127_out.tsp	418626	129874	142984	184420
ch130_out.tsp	48404	6719.41	7951.82	12784.6
ch150_out.tsp	52834	7373.75	8126.11	12419.7
eil101_out.tsp	2105.1	743.274	781.182	975.086
eil51_out.tsp	1406.5	463.339	494.457	635.913
eil76_out.tsp	2035.7	608.422	615.164	772.846
kroA100_out.tsp	194153	24098	26532.7	55011.8
kroB100_out.tsp	157587	24014.4	27895.6	40108.8
kroC100_out.tsp	183891	22679.7	26132.5	45732.2
kroD100_out.tsp	166110	23557.9	24564.2	46699.2
kroE100_out.tsp	183384	23692.6	25092.3	43599.1
lin105_out.tsp	36640	16325.4	16756.6	24584.1
lin318_out.tsp	120043	47094.9	60813	80086.8
pr124_out.tsp	116736	73328.2	98206.6	107148
pr144_out.tsp	104283	71520.6	91067.3	103078
pr76_out.tsp	151298	112677	139350	151298
rat195_out.tsp	4056.5	2491.03	2654.67	3620.99
rat99_out.tsp	2143	1350.88	1382.34	1999.74
st70_out.tsp	3546.3	738.322	932.69	1297.51

Random Insertion	Random Insertion + 2-opt	Random Insertion + Node Shift
3040.39	2887.79	2873.55
8102.06	7986.42	7979.52
136964	141894	141710
6873.28	6535.56	6522.44
7162.71	7085.14	7019.47
712.206	689.484	690.512
469.891	471.666	449.598
610.501	604.4	592.58
22906.7	22181.2	21567
25922.7	23513.7	23255.7
22053.1	21375.1	21714.8
25741.7	23506.4	22521.7
27766.2	23461.5	24649.1
16422	16092.2	15979.6
46186.6	45957.8	45484.9
73505.3	73288.7	73208
72008.4	70891.4	71216.1
120457	115733	119973
2588.83	2574.06	2488.01
1414.51	1326.6	1314.34
881.645	709.859	788.824

Random Insertion + Node Swap	Greedy approach	Greedy approach + 2-opt
2977.95	5095.26	3065.73
7993.5	28059.9	8106.15
141110	577255	128583
6546.51	46273.5	6656.93
7116.82	51018	7348.36
699.889	2827.75	727.867
471.666	1731.18	476.972
607.272	2404.87	607.657
22243.8	157139	25371
23713.3	183332	26933.7
21375.1	159563	22159.2
23746.1	164029	25372.5
24764.5	174304	25998.7
16244.2	57979.7	15090.1
45972.4	193384	46434.2
73288.7	194076	74506.3
72008.4	187265	72274.2
120053	231769	116613
2581.93	5289.63	2598.45
1378.23	2773.02	1324.71
802.35	3538.01	768.823

Greedy approach + Node Shift

3337
8704.45
139926
7930.98
8697.85
739.588
494.068
653.567
29829.3
31652.5
26570.2
29061.7
30243.4
17414.6
60690.7
76208.3
83579.5
132456
2667.56
1424.89
821.38

Greedy approach + Node Swap

3986.38
13017.5
197521
12061.3
12305.3
906.132
576.914
777.494
54893.3
44881
44965
38316.4
43363.8
21793.6
74301.4
80710
102149
154485
3303.65
1605.91
1178.68