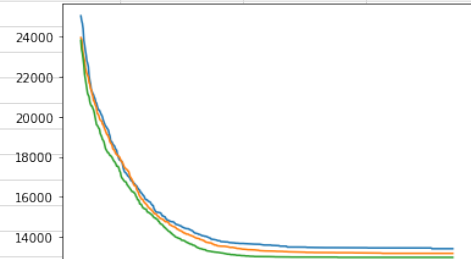
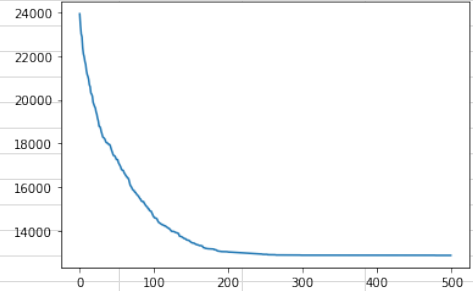
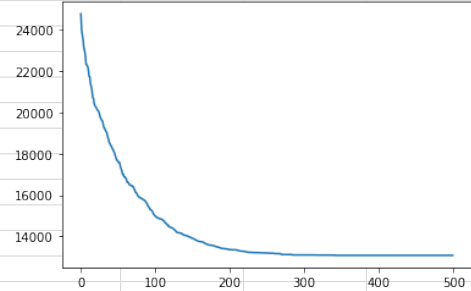
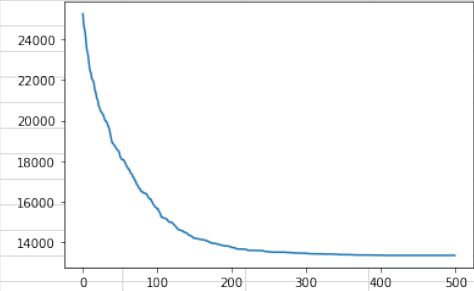


number	km	s	n!
6	5018.81	0.003	720
7	5487.89	0.021	5040
8	6667.49	0.207	40320
9	6678.55	2.213	362880
10	7486.31	25.396	3628800
11		279.355	39916800
12		3352.263	479001600
13		43579.423	6227020800
14		610111.927	87178291200
15		9151678.900	1307674368000
16		146426862.399	20922789888000
17		2489256660.791	355687428096000
18		44806619894.230	6402373705728000
19		851325777990.370	121645100408832000
20		17026515559807.400	2432902008176640000
21		357556826755956.000	51090942171709400000
22		7866250188631020.000	1124000727777610000000
23		180923754338513000.000	25852016738885000000000
24		4342170104124320000.000	6204484017332390000000000
		138	bilions / miliardi
	6.20448E+23		

10 CITIES				24 CITIES		
	kilometers	seconds			kilometers	seconds
	10401.57	1.120			26277.47	2.482
	10964.56	1.139			23450.93	2.363
	10978.73	1.036			23273.51	2.127
	9470.61	1.083			27549.4	2.016
	10647.44	1.132			25121.56	2.374
	11380.93	1.148			22921.82	2.311
	9648.28	1.035			24671.29	1.933
	10341.19	1.202			24895.53	1.904
	7767.16	1.112			23211.03	1.822
	9566.12	1.130			23507.42	1.904
	11127.79	1.130			26986.47	1.891
	9984.32	1.192			24762.21	1.984
	8939.53	1.067			24084.17	1.973
	11304.29	1.048			27075.4	1.904
	8687.77	1.136			26866.95	1.863
	9514.58	1.142			24191.35	1.823
	10610.52	1.067			24793.21	1.832
	9706.71	1.080			18347.98	1.777
	7737.95	1.068			21487.19	1.770
	7486.31	1.138			26230.33	1.722
MAX	11380.93	1.202		MAX	27549.4	2.482
MIN	7486.31	1.035		MIN	18347.98	1.722
AVG	9813.318	1.110		AVG	24485.261	1.989
STD DV	1199.180729	0.048		STD DV	2170.703802	0.224

populationSize = 100, iterations = 500			populationSize = 300, iterations = 500			populationSize = 700, iterations = 500		
24 CITIES			24 CITIES			24 CITIES		
	kilometers	seconds		kilometers	seconds		kilometers	seconds
	13933.60	1.974		13022.79	5.811		13091.27	13.165
	13712.05	1.979		12709.00	5.703		12416.87	13.507
	14306.87	1.937		13016.58	5.719		12643.55	14.281
	13297.89	1.885		13251.24	5.956		13767.80	13.024
	12557.90	1.951		13277.20	5.497		12396.32	12.892
	14706.93	1.774		12678.46	5.876		13289.98	13.822
	14568.95	1.961		13028.85	5.829		13091.27	13.808
	12633.05	1.947		13383.06	5.941		12416.87	13.718
	13694.61	2.032		12606.32	5.767		13157.64	13.459
	12955.86	1.992		12837.39	5.684		12287.07	13.490
	13728.82	1.928		13414.82	5.592		13071.17	13.264
	12416.87	1.919		12766.30	5.626		12647.76	13.009
	13377.52	1.943		12740.70	5.882		12325.93	13.522
	12882.98	1.707		13476.91	5.885		12827.96	13.350
	12633.83	1.841		12557.90	5.712		12909.55	14.103
	12423.02	1.905		13374.43	5.798		12709.00	13.939
	12416.87	1.979		13702.25	5.787		14025.80	13.812
	12663.41	1.977		13087.75	5.612		13726.60	13.347
	13412.19	1.924		13402.42	5.840		12558.67	13.777
	14628.27	1.930		13371.48	5.621		12334.35	13.503
MAX	14706.93	2.032	MAX	13702.25	5.956	MAX	14025.80	14.281
MIN	12416.87	1.707	MIN	12557.90	5.497	MIN	12287.07	12.892
AVG	13347.57	1.924	AVG	13085.29	5.757	AVG	12884.77	13.540
STD DV	785.32	0.076	STD DV	337.9611646	0.126	STD DV	515.7235195	0.370



Blue 100
Orange 300
Green 700



kilometers	seconds		
13933.60	1.974	[10, 4, 9, 20, 18, 13, 0, 12, 7, 11, 16, 3, 15, 8, 6, 21, 2, 17, 22, 1, 5, 23, 19, 14]	
13712.05	1.979	[6, 21, 19, 14, 10, 23, 17, 11, 7, 12, 0, 13, 18, 1, 20, 9, 4, 5, 22, 15, 16, 3, 8, 2]	
14306.87	1.937	[19, 21, 6, 8, 2, 17, 3, 16, 13, 18, 20, 9, 4, 1, 5, 22, 15, 0, 12, 7, 11, 23, 10, 14]	
13297.89	1.885	[11, 7, 12, 0, 18, 13, 15, 6, 21, 19, 14, 10, 23, 22, 5, 1, 20, 9, 4, 17, 2, 8, 3, 16]	
12557.90	1.951	[12, 7, 11, 16, 3, 8, 6, 21, 19, 14, 10, 23, 4, 9, 20, 1, 5, 22, 17, 2, 15, 13, 18, 0]	
14706.93	1.774	[8, 2, 6, 7, 11, 16, 13, 18, 20, 9, 4, 1, 5, 22, 10, 14, 19, 21, 23, 17, 15, 0, 12, 3]	
14568.95	1.961	[14, 19, 21, 23, 2, 6, 8, 7, 11, 3, 15, 17, 22, 1, 4, 9, 20, 18, 0, 12, 16, 13, 5, 10]	
12633.05	1.947	[0, 13, 18, 1, 20, 9, 4, 5, 22, 15, 17, 23, 10, 14, 19, 21, 6, 2, 8, 3, 16, 11, 7, 12]	
13694.61	2.032	[6, 7, 11, 16, 12, 0, 13, 18, 20, 9, 4, 1, 5, 15, 3, 8, 2, 17, 22, 23, 10, 14, 19, 21]	
12955.86	1.992	[15, 17, 23, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 13, 18, 0, 12, 16, 7, 11, 3, 8, 2]	
13728.82	1.928	[15, 1, 20, 9, 4, 5, 22, 23, 10, 14, 19, 21, 6, 3, 16, 13, 18, 0, 12, 7, 11, 8, 2, 17]	
12416.87	1.919	[4, 10, 14, 19, 21, 6, 23, 17, 2, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 22, 5, 1, 20, 9]	
13377.52	1.943	[15, 3, 16, 11, 7, 12, 0, 18, 13, 17, 23, 10, 14, 19, 21, 6, 8, 2, 22, 5, 4, 9, 20, 1]	
12882.98	1.707	[12, 7, 11, 16, 3, 17, 2, 8, 6, 21, 19, 14, 10, 23, 5, 1, 20, 9, 4, 22, 15, 13, 18, 0]	
12633.83	1.841	[3, 16, 11, 7, 12, 0, 18, 13, 15, 17, 22, 4, 9, 20, 1, 5, 23, 10, 14, 19, 21, 6, 2, 8]	
12423.02	1.905	[20, 9, 4, 10, 14, 19, 21, 23, 17, 2, 6, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 22, 5, 1]	
12416.87	1.979	[12, 7, 11, 16, 3, 8, 2, 17, 23, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 15, 13, 18, 0]	
12663.41	1.977	[4, 10, 14, 19, 21, 6, 2, 17, 22, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 23, 5, 1, 20, 9]	
13412.19	1.924	[7, 12, 0, 13, 15, 17, 22, 23, 10, 14, 19, 21, 6, 8, 2, 5, 1, 4, 9, 20, 18, 16, 3, 11]	
14628.27	1.930	[20, 9, 4, 2, 8, 11, 7, 12, 0, 16, 3, 15, 13, 18, 22, 17, 23, 10, 14, 19, 21, 6, 5, 1]	
13022.79	5.811	[22, 17, 2, 3, 16, 11, 7, 12, 0, 18, 13, 15, 8, 6, 21, 19, 14, 10, 23, 5, 4, 9, 20, 1]	
12709.00	5.703	[13, 15, 5, 1, 20, 9, 4, 10, 14, 19, 21, 23, 22, 17, 2, 6, 8, 3, 16, 11, 7, 12, 0, 18]	
13016.58	5.719	[19, 14, 10, 23, 2, 8, 17, 15, 22, 5, 1, 4, 9, 20, 18, 13, 0, 12, 7, 11, 16, 3, 6, 21]	
13251.24	5.956	[21, 19, 14, 10, 4, 9, 20, 1, 5, 23, 17, 22, 18, 0, 12, 13, 15, 16, 7, 11, 3, 8, 2, 6]	
13277.20	5.497	[5, 1, 20, 9, 4, 10, 14, 19, 21, 6, 2, 8, 11, 7, 12, 0, 16, 3, 15, 13, 18, 22, 17, 23]	
12678.46	5.876	[6, 8, 3, 16, 11, 7, 12, 0, 13, 18, 1, 20, 9, 4, 10, 14, 19, 21, 23, 5, 22, 15, 17, 2]	
13028.85	5.829	[6, 2, 23, 5, 22, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 17, 1, 20, 9, 4, 10, 14, 19, 21]	
13383.06	5.941	[10, 14, 19, 21, 6, 3, 16, 11, 7, 8, 2, 17, 22, 15, 13, 12, 0, 18, 20, 9, 4, 1, 5, 23]	
12606.32	5.767	[9, 4, 10, 14, 19, 21, 6, 17, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 2, 23, 22, 5, 1, 20]	
12837.39	5.684	[5, 22, 2, 8, 6, 21, 19, 14, 10, 23, 17, 15, 13, 16, 3, 11, 7, 12, 0, 18, 20, 9, 4, 1]	

13414.82	5.592	[6, 2, 17, 15, 13, 22, 5, 1, 20, 9, 4, 10, 14, 19, 21, 23, 18, 0, 12, 16, 7, 11, 3, 8]	
12766.30	5.626	[22, 5, 1, 4, 9, 20, 18, 0, 12, 7, 11, 3, 16, 13, 15, 2, 8, 6, 21, 19, 14, 10, 23, 17]	
12740.70	5.882	[13, 15, 17, 23, 2, 8, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 3, 11, 7, 16, 12, 0, 18]	
13476.91	5.885	[13, 15, 22, 1, 20, 9, 4, 5, 17, 2, 8, 6, 21, 19, 14, 10, 23, 18, 0, 12, 7, 11, 3, 16]	
12557.90	5.712	[22, 17, 2, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 6, 21, 19, 14, 10, 23, 4, 9, 20, 1, 5]	
13374.43	5.798	[18, 20, 9, 4, 10, 14, 19, 21, 23, 5, 1, 22, 17, 2, 6, 8, 3, 11, 7, 16, 12, 0, 13, 15]	
13702.25	5.787	[18, 20, 9, 4, 1, 5, 23, 10, 14, 19, 21, 11, 7, 12, 0, 16, 3, 8, 6, 2, 17, 22, 15, 13]	
13087.75	5.612	[4, 5, 17, 6, 21, 19, 14, 10, 23, 2, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 22, 1, 20, 9]	
13402.42	5.840	[23, 5, 4, 9, 20, 1, 18, 0, 12, 7, 11, 16, 3, 2, 17, 22, 13, 15, 8, 6, 21, 19, 14, 10]	
13371.48	5.621	[8, 2, 17, 5, 4, 9, 20, 1, 22, 15, 13, 18, 0, 12, 16, 3, 11, 7, 21, 19, 14, 10, 23, 6]	
13091.27	13.165	[15, 2, 8, 6, 21, 19, 14, 10, 23, 17, 22, 5, 1, 4, 9, 20, 18, 13, 16, 3, 11, 7, 12, 0]	FALSE
12416.87	13.507	[17, 23, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 2]	FALSE
12643.55	14.281	[5, 22, 3, 16, 11, 7, 12, 0, 18, 13, 15, 17, 23, 2, 8, 6, 21, 19, 14, 10, 4, 9, 20, 1]	FALSE
13767.80	13.024	[23, 1, 20, 9, 4, 10, 14, 19, 21, 6, 11, 7, 12, 0, 18, 5, 22, 17, 15, 13, 16, 3, 8, 2]	FALSE
12396.32	12.892	[19, 14, 10, 23, 4, 9, 20, 1, 5, 22, 17, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 2, 6, 21]	FALSE
13289.98	13.822	[23, 10, 14, 19, 21, 6, 3, 16, 11, 7, 12, 0, 18, 20, 9, 4, 1, 5, 22, 13, 15, 17, 8, 2]	FALSE
13091.27	13.808	[17, 23, 10, 14, 19, 21, 6, 8, 2, 15, 0, 12, 7, 11, 3, 16, 13, 18, 20, 9, 4, 1, 5, 22]	FALSE
12416.87	13.718	[17, 2, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 22, 5, 1, 20, 9, 4, 10, 14, 19, 21, 6, 23]	FALSE
13157.64	13.459	[15, 22, 5, 1, 4, 9, 20, 18, 0, 12, 13, 16, 3, 11, 7, 8, 6, 21, 19, 14, 10, 23, 2, 17]	FALSE
12287.07	13.490	[0, 12, 7, 11, 16, 3, 8, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 23, 2, 17, 15, 13, 18]	TRUE
13071.17	13.264	[3, 16, 13, 18, 0, 12, 7, 11, 8, 6, 21, 19, 14, 10, 4, 9, 20, 1, 5, 22, 23, 2, 17, 15]	FALSE
12647.76	13.009	[20, 1, 18, 13, 0, 12, 7, 11, 16, 3, 15, 17, 2, 8, 6, 21, 19, 14, 10, 23, 22, 5, 4, 9]	FALSE
12325.93	13.522	[6, 2, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 17, 23, 22, 5, 1, 20, 9, 4, 10, 14, 19, 21]	FALSE
12827.96	13.350	[2, 3, 16, 11, 7, 12, 0, 18, 13, 15, 8, 6, 21, 19, 14, 10, 23, 4, 9, 20, 1, 5, 22, 17]	FALSE
12909.55	14.103	[2, 8, 15, 13, 18, 0, 12, 7, 11, 16, 3, 6, 21, 19, 14, 10, 23, 4, 9, 20, 1, 5, 22, 17]	FALSE
12709.00	13.939	[14, 10, 4, 9, 20, 1, 5, 15, 13, 18, 0, 12, 7, 11, 16, 3, 8, 6, 2, 17, 22, 23, 21, 19]	FALSE
14025.80	13.812	[5, 22, 17, 15, 16, 11, 3, 8, 2, 23, 1, 20, 9, 4, 10, 14, 19, 21, 6, 7, 12, 0, 13, 18]	FALSE
13726.60	13.347	[0, 16, 3, 15, 13, 18, 1, 20, 9, 4, 10, 14, 19, 23, 5, 22, 17, 2, 21, 6, 8, 11, 7, 12]	FALSE
12558.67	13.777	[17, 22, 5, 23, 2, 8, 6, 21, 19, 14, 10, 4, 9, 20, 1, 18, 0, 12, 7, 11, 3, 16, 13, 15]	FALSE
12334.35	13.503	[5, 1, 20, 9, 4, 10, 14, 19, 21, 6, 23, 2, 8, 3, 16, 11, 7, 12, 0, 18, 13, 15, 17, 22]	FALSE