



BANGLADESH UNIVERSITY OF ENGINEERING & TECHNOLOGY

TSP Offline

COURSE NUMBER: CSE 318

LAB GROUP: A2

SUBMITTED BY:

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

LEVEL - 3, TERM - 2

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The greedy_simple results						
	Avg. cases		Best Case		Worst Case	
	NNH	SH	NNH	SH	NNH	SH
pr76	421590	114039	376155	112137	485072	115838
berlin52	23561	8283.4	17168	8138	29700	8550
st70	2869	717.6	2398	703	3128	743

The greedy_randomized results						
	Avg. cases		Best Case		Worst Case	
	NNH	SH	NNH	SH	NNH	SH
pr76	379201	117199	352564	110928	377588	118503
berlin52	26573.2	8483.5	22920	8234	26513	8406
st70	2742	756.3	2656	711	2705	761

The 2-opt results for best improvement						
	Avg. cases		Best Case		Worst Case	
	NNH	SH	NNH	SH	NNH	SH
pr76	110530	111814	109164	110848	111907	112301
berlin52	7921.25	7878.75	7800	7878	8191	7881
st70	706.25	690	679	679	729	705

The 2-opt results for first improvement						
	Avg. cases		Best Case		Worst Case	
	NNH	SH	NNH	SH	NNH	SH
pr76	113049	111814	111907	110848	114191	112301
berlin52	8031.25	7963.75	7800	7881	8319	8068
st70	712.5	691	681	681	759	705

Performance Comparison						
	Optimal cost		Best Improvement		First Improvement	
	Actual cost	Percentage	Actual cost	Percentage	Actual cost	Percentage
	NNH	SH	NNH	SH	NNH	SH
pr76	108159	100	109164	101.54	111907	99.05
berlin52	7542	100	7800	101	7800	101
st70	675	100	679	100	681	100