

CS 412 NP-Complete Project Data

		Approximate		Exact	
# of Nodes	# of edges	Result	time	Result	time
26		2	0.0128	2	12.29
13		3	0.0052	2	0.0141
23	30	4	0.004	3	5992.24
10	11	3	0.0048	2	0.00822
6	4	2	0.0025	2	0.0028
12	17	3	0.00586	3	0.03636
13	17	3	0.00545	3	0.02465

		Approximate		Exact	
# of Nodes	# of edges	Result	time	Result	time
10	10	3	0.003586	2	0.002368
10	10	3	0.00123	2	0.00201
10	10	3	0.00285	3	0.005835
10	10	3	0.005628	3	0.01487
10	10	4	0.00272	3	0.0071206
10	10	2	0.00183	2	0.00141
10	15	3	0.00334	3	0.0109
10	15	3	0.00206	3	0.00349
10	15	3	0.0008	3	0.01
10	15	3	0.00181	2	0.00222
10	15	3	0.00099	3	0.011335
10	15	4	0.00194	3	0.01384
15	15	3	0.01094	3	0.406
15	15	3	0.00285	3	2.407
15	15	3	0.00562	2	0.0211
15	15	3	0.00288	3	0.4204
15	15	3	0.00321	3	1.034
15	15	4	0.00291	2	0.01533

20	20	3	0.00429	3	589.81
20	20	3	0.00379	3	262.78

	10 V, 10 E	10 V, 15 E	15 V, 15 E	20 V, 20 E	20 V, 30 E
Approx Average	0.002974	0.00420	0.004735	0.00404	0.004
Exact Average	0.033614	0.00863	0.717305	426.295	5992

For 70 Random Graphs:	
times correct	times incorrect
50	20

Correct	72%
Incorrect	28%