

8880 Ass1 Tables

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This is the table containing the following 11 network measurements (rows) for the 5 networks given in the questions.

	G1	G2	G _{er1}	G _{er2}	G _{wg}
Number of nodes	297.000000	1005.000000	297.000000	1005.000000	297.000000
Number of edges	2148.000000	16706.000000	2142.000000	16765.000000	2079.000000
Average degree	14.464646	33.245771	14.424242	33.363184	14.000000
Average clustering	0.292363	0.399355	0.042827	0.033097	0.511346
Transitivity	0.180711	0.267392	0.043560	0.033040	0.505767
Max degree	134.000000	347.000000	26.000000	53.000000	17.000000
Min degree	1.000000	1.000000	6.000000	17.000000	11.000000
Diameter	5.000000	7.000000	4.000000	3.000000	5.000000
Radius	3.000000	4.000000	3.000000	3.000000	4.000000
Max closeness centrality	0.597980	0.573848	0.466142	0.473585	0.366337
Max betweenness centrality	0.303397	0.087415	0.013699	0.003264	0.022592

This is the table containing the following 11 network measurements (rows) for the real network, random network model and small world model.

	G1	G _{er1}	G _{ws}	G _{nw}
Number of nodes	297.000000	297.000000	297.000000	297.000000
Number of edges	2148.000000	2122.000000	2079.000000	2811.000000
Average degree	14.464646	14.289562	14.000000	18.929293
Average clustering	0.292363	0.049461	0.216446	0.402294
Transitivity	0.180711	0.048834	0.209472	0.386647
Max degree	134.000000	28.000000	20.000000	25.000000
Min degree	1.000000	5.000000	9.000000	14.000000
Diameter	5.000000	4.000000	4.000000	4.000000
Radius	3.000000	3.000000	3.000000	3.000000
Max closeness centrality	0.597980	0.465409	0.425287	0.453988
Max betweenness centrality	0.303397	0.017283	0.015252	0.012779

This is the table containing the following 11 network measurements (rows) for the WS model with p changes.

	G1	$G_{ws_0.25}$	$G_{ws_0.26}$	$G_{ws_0.27}$	$G_{ws_0.28}$	$G_{ws_0.29}$
Number of nodes	297.000000	297.000000	297.000000	297.000000	297.000000	297.000000
Number of edges	2148.000000	2079.000000	2079.000000	2079.000000	2079.000000	2079.000000
Average degree	14.464646	14.000000	14.000000	14.000000	14.000000	14.000000
Average clustering	0.292363	0.315503	0.297705	0.282698	0.264905	0.288945
Transitivity	0.180711	0.308079	0.289988	0.275291	0.260134	0.279472
Max degree	134.000000	22.000000	19.000000	20.000000	19.000000	20.000000
Min degree	1.000000	9.000000	9.000000	9.000000	10.000000	8.000000
Diameter	5.000000	4.000000	4.000000	4.000000	4.000000	4.000000
Radius	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
Max closeness centrality	0.597980	0.418079	0.412831	0.415730	0.409405	0.412831
Max betweenness centrality	0.303397	0.018445	0.014729	0.015834	0.012025	0.014048

	$G_{ws_0.30}$	$G_{ws_0.31}$	$G_{ws_0.32}$	$G_{ws_0.33}$	$G_{ws_0.34}$	$G_{ws_0.35}$
Number of nodes	297.000000	297.000000	297.000000	297.000000	297.000000	297.000000
Number of edges	2079.000000	2079.000000	2079.000000	2079.000000	2079.000000	2079.000000
Average degree	14.000000	14.000000	14.000000	14.000000	14.000000	14.000000
Average clustering	0.251664	0.246480	0.232606	0.225074	0.225635	0.202256
Transitivity	0.245325	0.239743	0.226641	0.218743	0.218504	0.198924
Max degree	20.000000	21.000000	19.000000	19.000000	20.000000	21.000000
Min degree	9.000000	9.000000	9.000000	9.000000	9.000000	8.000000
Diameter	4.000000	4.000000	4.000000	4.000000	4.000000	4.000000
Radius	3.000000	3.000000	3.000000	3.000000	3.000000	3.000000
Max closeness centrality	0.420455	0.430233	0.416901	0.415730	0.420455	0.421652
Max betweenness centrality	0.014614	0.018197	0.012739	0.013291	0.013999	0.012947