

RANDOM GRAPH VS PROTEIN GRAPH WITH SAME DEGREE DISTRIBUTION
PDB USED = 1HQ2.PDB

nodes = 158
average degree = 7.72151898734
avg clustering coeff = 0.544386450399
edges = 610
average shortest path = 4.42562283319

degree dist for protein graph =

DEGREE	DEGREE DISTR
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2	0.0
3	0.0126582278481
4	0.0759493670886
5	0.0506329113924
6	0.177215189873
7	0.177215189873
8	0.151898734177
9	0.132911392405
10	0.0886075949367
11	0.0886075949367
12	0.0316455696203
13	0.00632911392405
14	0.00632911392405
15	0.0

clustering coeff dist for protein graph =

DEGREE	CLUSTERING COEFF DISTR
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2	0
3	1.0
4	0.547619047619
5	0.204545454545
6	0.346666666667
7	0.192918192918
8	0.136204481793
9	0.0853658536585
10	0.0446066504461
11	0.0406983744732
12	0.0130147630148
13	0.00269475747183
14	0.00229517318125
15	0.0

degree dist for random graph =

DEGREE	DEGREE DISTR
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2	0.0
3	0.0126582278481

4	0.0759493670886
5	0.0506329113924
6	0.177215189873
7	0.177215189873
8	0.151898734177
9	0.132911392405
10	0.0886075949367
11	0.0886075949367
12	0.0316455696203
13	0.00632911392405
14	0.00632911392405
15	0.0

clustering coeff dist for random graph =

DEGREE	CLUSTERING COEFF DISTR
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2	0
3	0.0
4	0.0595238095238
5	0.00454545454545
6	0.048
7	0.030525030525
8	0.0234593837535
9	0.0178410117435
10	0.01200324412
11	0.0123419626731
12	0.00223387723388
13	0.000898252490609
14	0.000765057727083
15	0.0