

## CSE 107 LAB 4

**Mean Estimates**

The table below shows the estimated means of  $Y$  for all combinations of  $p$  and  $q$ :

$pq$	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.1	1.02	2.00	3.00	3.97	5.03	6.07	7.02	8.01	8.96
0.2	0.49	0.99	1.48	1.99	2.48	3.00	3.50	4.06	4.49
0.3	0.35	0.67	1.01	1.33	1.63	1.97	2.33	2.61	3.02
0.4	0.25	0.51	0.75	1.03	1.25	1.50	1.79	2.02	2.23
0.5	0.20	0.41	0.60	0.80	1.00	1.20	1.43	1.61	1.80
0.6	0.17	0.34	0.49	0.67	0.84	1.01	1.16	1.35	1.51
0.7	0.14	0.29	0.44	0.57	0.70	0.86	1.00	1.15	1.30
0.8	0.12	0.25	0.38	0.49	0.63	0.74	0.87	0.99	1.13
0.9	0.11	0.22	0.33	0.44	0.56	0.67	0.77	0.89	1.00

**Variance Estimates**

The table below shows the estimated variances of  $Y$  for all combinations of  $p$  and  $q$ :

$pq$	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.1	1.87	5.34	10.09	16.81	25.18	34.99	46.00	58.63	72.65
0.2	0.64	1.63	2.75	4.26	6.23	8.59	11.00	14.14	16.77
0.3	0.39	0.83	1.39	2.01	2.69	3.49	4.46	5.26	6.57
0.4	0.27	0.55	0.85	1.24	1.55	1.96	2.48	2.86	3.24
0.5	0.20	0.40	0.59	0.79	1.04	1.19	1.45	1.57	1.84
0.6	0.16	0.30	0.46	0.59	0.71	0.79	0.89	1.04	1.04
0.7	0.13	0.25	0.37	0.47	0.54	0.61	0.70	0.76	0.63
0.8	0.11	0.22	0.31	0.38	0.45	0.50	0.55	0.61	0.38
0.9	0.10	0.18	0.27	0.32	0.38	0.42	0.47	0.51	0.20