MLE for Geom. Distr. of sample size n = 3000		
k	Observed frequen	ncy Predicted frequency
1	947	992.06
2	685	664
3	470	444.42
4	313	297.46
5	200	199.09
6	128	133.25
7	88	89.19
8	57	59.7
9	32	39.95
10	30	26.74
11	17	17.9
12	11	11.98
13	5	8.02
14	4	5.37
15	3	3.59
16	5	2.4
18	1	1.61
19	1	1.08
20	2	0.72
23	1	0.48
	Real $p = 0.3333$ a	nd MLE for $p = 0.3307$

y