

CS203 Assignment-I report

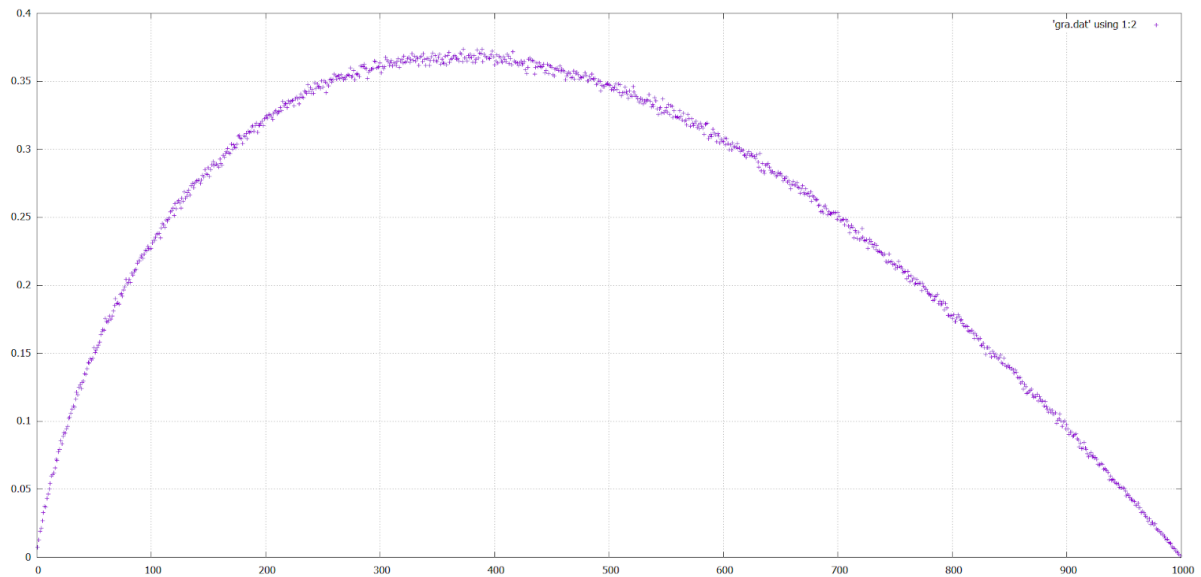
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Part-I

The behaviour of p_{nk} as function of k (for $n=1000$):
(probability on y-axis and values of k on x-axis)

Part II



The optimal values of k (for which p_{nk} achieves the maximum value) for different values of n :

Values of n	100	200	300	400	500	600	700	800	900	1000
Values of k for which p_{nk} is maximum	37	79	110	137	192	221	257	285	329	370
p_{nk}	0.3795	0.3761	0.3823	0.3749	0.3792	0.3805	0.3791	0.3806	0.33772	0.3783