Size of input array	Average Time (in milliseconds)					
	k=105	k=205	k=405	k=605	k=805	k=1005
10^2	0.54	0.4	0.69	0.24	0.31	0.93
10^3	2.52	1.63	2.06	1.61	1.39	2.68
10^4	10.29	8.4	9.96	14.24	13.65	15.16
10^5	71.06	76.49	114.97	123.29	160.73	192.22