Assignment 1 Report

S. No	Number of Dimensions (n)	Average Time taken (msec) (T)	Average no. of nodes visited (V)	No. of rectangles (N)	M, m	Linear Search number of nodes N/4096 (L)	L/V
1	2	831	19,682	5,000,000	455, 227	1220	0.061
2	5	1042	52,824	5,000,000	195, 97	1220	0.023
3	10	2091	105,223	5,000,000	99, 49	1220	0.012
4	50	3810	410,659	5,000,000	20, 10	1220	0.003
5	100	4188	325,630	5,000,000	10, 5	1220	0.0037
6	200	5200*	315,000*	5,000,000	5, 2	1220	0.0039
7	500	6000*	280,000*	5,000,000	2, 1	1220	0.0044

* Values estimated by running on smaller N values (due to memory constraints)