

newbooks.dat (N)	request.dat (M)	Linear (ms)	Binary (ms)	ratio
20	4	9.358	180.07	5
250	12	542.226	955.52	20.83
30000	90	73209	88221.7	333.333
70000	80	153967	184562	444.44
5000	4	3532.84	4812.62	1250
100000	4	13595.1	86497.8	25000

From the data table above, it seems like we spend more time doing binarySearch than linearSearch. However, the time for binarySearch also includes the sorting time. Therefore, it is somewhat unclear to decide whether or not binarySearch is more efficient in this case. On the other hand, if the data was already sorted, I would choose to use binarySearch over linearSearch.