Benchmarking:

- 1. REREAD ON QUERY == False
 - a) Using Dictionary that stores all the lines in the file
 - i. Time complexity = o(1)
 - ii. Execution time = 0.31ms
 - b) Sort the lines in the file and do a binary search
 - i. Time complexity = log(n)
 - ii. Execution time = 0.52 ms
- 2. REREAD_ON_QUERY==True
 - a) Using linear search
 - i. Time complexity = o(n)
 - ii. Execution Time = 48 ms

Execution time for different file sizes at worst case:

- 1. 1,000,000 lines:
 - b) REREAD_ON_QUERY == False
 - i. Execution time = 0.53 ms
 - c) REREAD ON QUERY == True
 - i. Execution time = 137 ms
- 2. 10,000 lines:
 - d) REREAD ON QUERY == False
 - i. Execution time = 0.47 ms
 - e) REREAD ON QUERY == True
 - i. Execution time = 2.3 ms