Runtime Analysis

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printDictionary() - A For loop that runs n times, n being the length of wordlist.

$$T(n) = n \implies O(n)$$

searchDictionary() - Implements binary Search and runs an if statment

$$T(n) = \log_2 n + 1 \implies O(\log_2 n)$$

binarySearch - uses a while loop that havns wordlist.

$$T(n) = \log_2 n \implies O(\log_2 n)$$