& print Dictionary () Runtime:

blc this mothed using a single for-loop, starting from 0, ending at the size of ArrayList word list, (which we can assign to n), with each loop incrementing i by 1, we can say the big-0 notation is O(n)

* Search Dictionary () Kuntime:

this method has a single if -stament, now ever, blc it calls binary search(), we cannot assume O(1) without calculating binary search()'s runtime first.

binarysearch() Uses recursive calls, there fore we must calculate the number of recursive function calls.

each time we divide the variable middle by 2, the assign that to either low or high.

$$T(n) = T\left(\frac{n}{2}\right) + 1$$

binary Search () has O(logn), which implies that search Dictionary () also has O(logn).