**Problem :** [**https://leetcode.com/problems/word-break/**](https://leetcode.com/problems/word-break/)

**Approach & Code :** [**https://leetcode.com/submissions/detail/544515343/**](https://leetcode.com/submissions/detail/544515343/)

Time to insert in set = W\*len\*logW , logW number of searches and for each search ‘len’ characters compared max. this is done for ‘W’ times for ‘W’ words.

**Time = O(W\*len\*logW n^2 \* len\*logW**)

n=len of string s

W = no of words in dict

len = length of longest word.

=> We can use Trie to reduce the time of search to O(len) from

O(len\*logW) but again constructing Trie takes O(W\*len).

**Time = O(W\*len + (n^2 \* len))**