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*Write a method or function in the major programming language of your choice that returns the*

*longest word in a sentence and its length.For example, “The cow jumped over the moon.”*

*should return “jumped” and 6.*

*Write unit tests, reworking code as needed*

*Add a method that returns the shortest word and length with unit tests*

*Create a README documenting any assumptions you made and including instructions on how to build and execute your tests.*

*Share your code using GitHub or similar.\*/*

*/\*\* Assumptions:*

*\* Assumed that the return type can be an array with first element as the shortest word*

*\* and second element as it's length, the result will be like [word, length].*

*\* Also assumed that there will be atleast one word which has shorter length in the sentence than others*

*\*Assumed there are* ***no*** *empty string of tabs in my sentence, like "" ' '" rest of the sentence"*

*If need be we can add an additional check not to return if its an empty string.*

*\*Assumed to return* ***last*** *shortest word that matches if there are more than one word of same short length*

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*Unit Tests:*

*1. Check the argument is a string if not return invalid input.*

*2.Checking for invalid length of sentence.*

*3. can also check if return result is not an empty string if needed*

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*/\*\* How to Run*

*\* Open codeinterview.io and clcik on TryDemo which opensup an editor*

*\* select Javascript(node) as programming language, copy paste the below code*

*\* Click Run should give you result array*

*\*/*

const shortestWord = ((*sentence*) => {

*//UnitTest:Checking for invalid input*

if (typeof sentence !== 'string') { return 'Invalid Input' }

*//UnitTest:Checking for invalid length of sentence*

if (sentence.length === 0) { return 'Invalid length' }

*// Split string to create a word array*

let arr = sentence.split(" ");

let res = [];

*// map to store words and their lengths as key value pairs*

let map = new Map();

*// iterate and store words and their lengths as (K,V)*

for (let i = 0; i < arr.length; i++) {

map.set(arr[i], arr[i].length);

}

*//Consider the length of first word in my array arbitrarily as a starting point(len variable)*

let len = arr[0].length;

let word = "";

*// filter through map for shortest length(value in this case) and storing shortest length key/value pairs*

map.forEach((*value*, *key*) => {

if (value <= len) {

len = value;

word = key;

}

})

return [word, len]

})

*//Final Result--->*

console.log(shortestWord("The cow jumped over the moon"));