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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 longest 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 larger length in the sentence than others and there are no two largest words with equal length, incase there are two words whose length is equal and more than rest of the words ,I intend to return the first word that matches my criterion.*

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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*

*\*/*

*/\*\* 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 longestWord = ((*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);

}

let len =0;

let word ="";

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

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

if(value > len) {

len = value;

word = key;}

})

return [word,len]

})

*//Final Result--->*

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