

Note that the substring 'bf||' is not a word because of the invalid character. Other substrings that are not words are '878', '7475' and '748'. The total number of words in the string is 21.

Interviewer guidelines are a set of hints and follow up questions to help you guide and evaluate the candidate.

Concepts covered: Basic Programming Skills, Loops, Strings, Problem Solving. The problem tests the candidate's ability to use loops and handle strings. It requires the candidate to come up with an algorithm

It's a basic implementation of strings. Just count the words separated by spaces and make sure to not count numeric words.

howMany(sentence):
i = 0
ans = 0
n = len(sentence)
process all characters
while (i < n):
c = 0 # alphabetic character and dashes count
c2 = 0 # total character count
c3 = 0 # valid punctuation
update character type counts until a space is reached
while (i < n and sentence[i] != ' '):
if ((sentence[i] >= 'a' and sentence[i] <= 'z') or
c += 1
elif (sentence[i] and (sentence[i] == ',' or senten
c3 += 1

c3 += 1
c2 += 1
i += 1
end of word - add to word count only if
valid characters count + valid punctuation count == a
and some valid characters are present in the word
if (c + c2 == c2 and c > 0):
ans += 1
skip all spaces
while (i < n and sentence[i] == ' '):
i += 1
urn ans

Count the words separated by spaces.

A word can be numeric so just skip them.

Interviewer Guidelines

▼ Hint 1

▼ Solution

space complexity. **Optimal Solution:**

Time Complexity: O(N)

def howMany(sentence):

Error Handling:

1. The words are separated by spaces and there might be multiple spaces in a sentence.

2. Numeric words(i.e. those words which consists of numbers) should not be counted as a valid word.

▼ Complexity Analysis

Time Complexity - O(n).
We make linear time operations on the input sentence.

Space Complexity - O(1) - No extra space is required.