Started on	Tuesday, 7 May 2024, 9:05 PM
State	Finished
Completed on	Tuesday, 7 May 2024, 9:48 PM
Time taken	42 mins 50 secs
Marks	5.00/5.00
Grade	**50.00** out of 50.00 (**100**%)
Name	AKSAYAA S V 2022-CSD-A

Question **1**

Correct

Mark 1.00 out of 1.00

Consider the below words as key words and check the given input is key word or not.

keywords: {break, case, continue, default, defer, else, for, func, goto, if, map, range, return, struct, type, var}

Input format:

Take string as an input from stdin.

Output format:

Print the word is key word or not.

Example Input:

break

Output:

break is a keyword

Example Input:

IF

Output:

IF is not a keyword

For example:

Input	Result
break	break is a keyword
IF	IF is not a keyword

Answer: (penalty regime: 0 %)

```
keywords = {"break", "case", "continue"

input_word = input()

if input_word in keywords:
    print(input_word, "is a keyword")
else:
    print(input_word, "is not a keyword
```

	Input	Expected	Got	
✔	break	break is a keyword	break is a keyword	✔
✔	IF	IF is not a keyword	IF is not a keyword	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **2**

Correct

Mark 1.00 out of 1.00

Given a string s consisting of some words separated by some number of spaces, return the length of the last word in the string.

A word is a maximal substring consisting of non-space characters only.

For example:

Input	Result
Hello World	5
fly me to the moon	4

Answer: (penalty regime: 0 %)

```
def length_of_last_word(s):
    words = s.split()

    if len(words) == 0:
        return 0

    return len(words[-1])

s = input()
print( length_of_last_word(s))

```

	Input	Expected	Got	
✔	Hello World	5	5	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **3**

Correct

Mark 1.00 out of 1.00

Given a string, determine if it is a palindrome, considering only alphanumeric characters and ignoring cases.

Note: For the purpose of this problem, we define empty string as valid palindrome.

Example 1:

```
Input:
A man, a plan, a canal: Panama

Output:
1
```

Example 2:

```
Input:
race a car

Output:
0
```

Constraints:

- `s` consists only of printable ASCII characters.

Answer: (penalty regime: 0 %)

```
def isPalindrome(s):
    filtered_s = ''.join(char.lower()

    return filtered_s == filtered_s[::

input_string = input()
if isPalindrome(input_string):
    print("1")
else:
    print("0")
```

	Input	Expected	Got	
✔	A man, a plan, a canal: Panama	1	1	✔
✔	race a car	0	0	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Find if a String2 is substring of String1. If it is, return the index of the first occurrence. else return -1.

Sample Input 1

thistest123string

123

Sample Output 1

8

Answer: (penalty regime: 0 %)

```
def find_substring(string1, string2):
    index = string1.find(string2)
    return index

string1 = input()
string2 = input()

index = find_substring(string1, string

if index != -1:
    print(index)
else:
    print(string2)

```

	Input	Expected	Got	
✔	thistest123string 123	8	8	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

Question **5**

Correct

Mark 1.00 out of 1.00

A pangram is a sentence where every letter of the English alphabet appears at least once.

Given a string sentence containing only lowercase English letters, return true if sentence is a pangram, or false otherwise.

Example 1:

Input:

thequickbrownfoxjumpsoverthelazydog

Output:

true

Explanation: sentence contains at least one of every letter of the English alphabet.

Example 2:

Input:

arvijayakumar

Output: false

Constraints:

1 <= sentence.length <= 1000

sentence consists of lowercase English letters.

Answer: (penalty regime: 0 %)

```
def isPangram(sentence):
    alphabet = "abcdefghijklmnopqrstuv

    sentence = sentence.lower()

    for char in alphabet:
        if char not in sentence:
            return False

    return True

input_sentence = input()
if isPangram(input_sentence):
    print("true")
else:
    print("false")

```

	Input	Expected	Got	
✔	thequickbrownfoxjumpsoverthelazydog	true	true	✔
✔	arvijayakumar	false	false	✔

Passed all tests! ✔

Correct

Marks for this submission: 1.00/1.00.

◄ Week-06_MCQ

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