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**Started on** Friday, 5 April 2024, 12:18 PM

**State** Finished

**Completed on** Monday, 8 April 2024, 11:29 AM

**Time taken** 2 days 23 hours

**Marks** 5.00/5.00

**Grade** **50.00** out of 50.00 (**100%**)

**Name** [DHANUSH M 2022-CSD-A](#)



Question 1

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 %)

```
1 String1 = input()
2 String2 = input()
3 try:
4     index = String1.index(String2)
5     print(index)
6 except ValueError:
7     print(-1)
8 ||
```

	Input	Expected	Got	
✓	thistest123string 123	8	8	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

## Question 2

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 %)

```

1 keywords = {'break', 'case', 'continue', 'default', 'defer', 'else', 'for', 'func',
2 input= input()
3 if input in keywords:
4     print(input, "is a keyword")
5 else:
6     print(input, "is not a keyword")

```

	Input	Expected	Got	
✓	break	break is a keyword	break is a keyword	✓



	Input	Expected	Got	
✓	IF	IF is not a keyword	IF is not a keyword	✓

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 *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 %)

```

1 | s = input()
2 | words = s.split()
3 | if words:
4 |     last_word = words[-1]
5 |     print(len(last_word))
6 | else:
7 |     print(0)

```

	Input	Expected	Got	
✓	Hello World	5	5	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

Question **4**

Correct

Mark 1.00 out of 1.00

Verify the given number is cyclic or not.

**Input Format**

Num1

Num2

**Constraints** $1 \leq \text{range} \leq 9999999999$ **Sample Input 1**

12345

45123

**Sample Output 1**

Yes

**Sample Input 2**

12345

54123

**Sample Output 2**

No

**Answer:** (penalty regime: 0 %)

```
1
2 def is_cyclic(num1, num2):
3
4     double_num1 = num1 + num1
5
6     return num2 in double_num1
7
8
9 num1 = input()
10 num2 = input()
11
12
13 if is_cyclic(num1, num2):
14     print("Yes")
15 else:
16     print("No")
```

	Input	Expected	Got	
✓	12345 45123	Yes	Yes	✓
✓	12345 54123	No	No	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.



## Question 5

Correct

Mark 1.00 out of 1.00

Given a number with maximum of 100 digits as input, find the difference between the sum of odd and even position digits.

Input Format:

Take a number in the form of String from stdin.

Output Format:

Print the difference between sum of even and odd digits

Example input:

1453

Output:

1

Explanation:

Here, sum of even digits is  $4 + 3 = 7$

sum of odd digits is  $1 + 5 = 6$ .

Difference is 1.

Note that we are always taking absolute difference.

**For example:**

Input	Result
1453	1

**Answer:** (penalty regime: 0 %)

```
1
2 number_str = input()
3
4 sum_even = 0
5 sum_odd = 0
6
7
8 for i in range(len(number_str)):
9
10     digit = int(number_str[i])
11
12
13
14     if (i + 1) % 2 == 0:
15         sum_even += digit
16     else:
17         sum_odd += digit
18
19
20 difference = abs(sum_even - sum_odd)
21
22
23 print(difference)
```

	Input	Expected	Got	
✓	1453	1	1	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

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