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**Started on** Wednesday, 10 April 2024, 10:19 AM

**State** Finished

**Completed on** Wednesday, 10 April 2024, 11:52 AM

**Time taken** 1 hour 32 mins

**Marks** 5.00/5.00

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

**Name** [TAMILARASI R 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 %)

```

1 key=[]
2 n=str(input())
3 key=['break','case','continue','default','defer','else','for','func']
4 if n in key:
5     print("%s is a keyword"%(n))
6 else:
7     print("%s is not a keyword"%(n))

```

	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 **2**

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**

this test123string

123

**Sample Output 1**

8

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

```
1 str1=str(input())
2 str2=str(input())
3 print(str1.find(str2))
```

	Input	Expected	Got	
✓	this test123string 123	8	8	✓

Passed all tests! ✓

**Correct**

Marks for this submission: 1.00/1.00.

## Question 3

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 |key=[]
2 |n=str(input())
3 |key=['break','case','continue','default','defer','else','for','func'
4 |if n in key:
5 |     print("%s is a keyword"%(n))
6 |else:
7 |     print("%s is not a keyword"%(n))

```

	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 4

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 %)

```
1 x = input()
2 x = x.lower()
3 x = ''.join(char for char in x if char.isalpha())
4 y = x[::-1]
5 if(y==x):
6     print("1")
7 else:
8     print("0")
```

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

Passed all tests! ✓

Correct



## Question 5

Correct

Mark 1.00 out of 1.00

Given a string  $s$  containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is valid if:

Open brackets must be closed by the same type of brackets.

Open brackets must be closed in the correct order.

Constraints:

$1 \leq s.length \leq 10^4$

$s$  consists of parentheses only '()[]{}'.

For example:

Input	Result
()	true
()[]{}	true
(]	false

Answer: (penalty regime: 0 %)

```

1 def is_balanced_brackets(s):
2     stack = []
3     brackets_map = {'(': ')', '{': '}', '[': ']'}
4     for char in s:
5         if char in brackets_map.values():
6             stack.append(char)
7         elif char in brackets_map.keys():
8             if not stack or stack[-1] != brackets_map[char]:
9                 return False
10            stack.pop()
11    return not stack
12 n=input()
13 if is_balanced_brackets(n):
14     print("true")
15 else:
16     print("false")

```

	Input	Expected	Got	
✓	()	true	true	✓
✓	()[]{}	true	true	✓
✓	(]	false	false	✓

Passed all tests! ✓

Correct

