Name: Talha khan (2303-009-KHI-DEG)

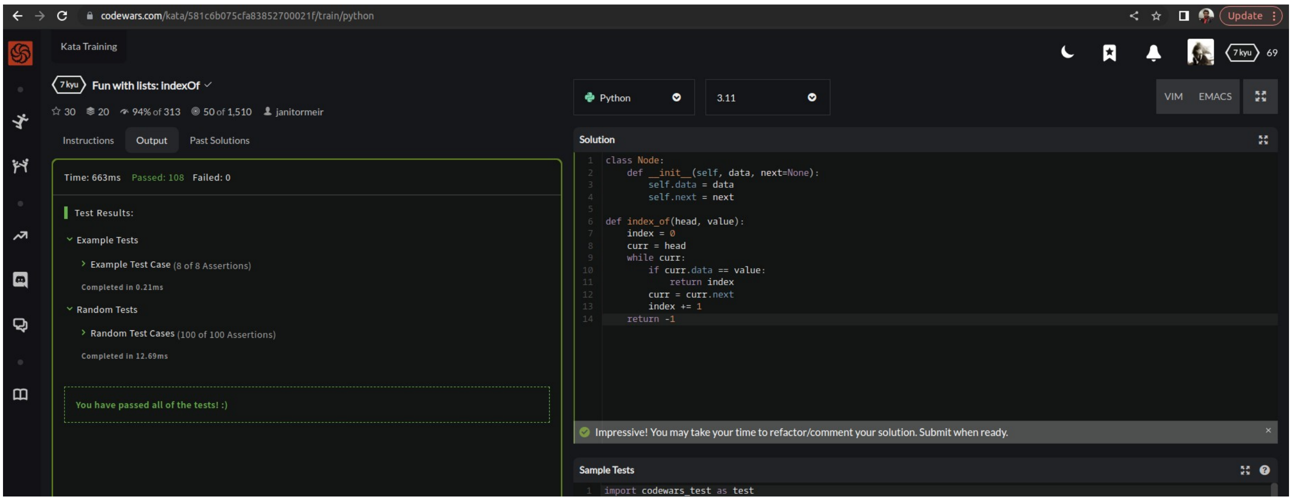
Fun with lists: indexOf

DESCRIPTION:

Implement the method **indexOf** (`index_of` in PHP), which accepts a linked list (head) and a value, and returns the index (zero based) of the *first* occurrence of that value if exists, or -1 otherwise.

For example: Given the list: `1 -> 2 -> 3 -> 3`, and the value 3, **indexOf** / `index_of` should return 2.

SOLUTION:



codewars.com/kata/581c6b075cfa83852700021f/train/python
Update
Kata Training
7 kyu
69
7 kyu Fun with lists: indexOf
30 20 94% of 313 50 of 1,510 janitormeir
Instructions
Output
Past Solutions
Python
3.11
VIM
EMACS
Solution
Sample Tests

```
Time: 663ms   Passed: 108   Failed: 0

Test Results:
  Example Tests
    Example Test Case (8 of 8 Assertions)
    Completed in 0.21ms
  Random Tests
    Random Test Cases (100 of 100 Assertions)
    Completed in 12.69ms

You have passed all of the tests! :)
```

```python
class Node:
    def __init__(self, data, next=None):
        self.data = data
        self.next = next

def index_of(head, value):
    index = 0
    curr = head
    while curr:
        if curr.data == value:
            return index
        curr = curr.next
        index += 1
    return -1
```

Impressive! You may take your time to refactor/comment your solution. Submit when ready.

```python
import codewars_test as test
```

EXPLANATION:

This implementation defines a Node class to represent nodes in the linked list. The indexOf method takes a head parameter, which is the first node in the linked list, and a value parameter, which is the value to search for in the list. The method initializes an index variable to zero and a current variable to the head of the list. It then loops through the list, checking each node's data value for a match with the value parameter. If a match is found, the method returns the current index value. If no match is found, the method moves to the next node in the list and increments the index value. If the end of the list is reached without finding a match, the method returns -1 to indicate that the value was not found in the list.