

12323 - LAB 01

Instructions

1. Access the auto-grader at <https://c200.luddy.indiana.edu>
2. Please write the code for the problems in python language
3. The code should be readable with variables named meaningfully
4. Plagiarism is unacceptable and we have ways to find it, so do not do it
5. Don't change the function signature (name of the function and number and types of arguments) provided in this file.
6. Once you pass all the tests on the auto grader, show your work to the teaching assistant

Problem

Question

A string is considered a palindrome if, when all uppercase letters are converted to lowercase and all non-alphanumeric characters are removed, it remains the same when read forward and backward.

Verify whether a given string 's' meets this criterion and return true if it is a palindrome, or false otherwise.

Test cases

Input: "Race A CaR"

Output: False

Explanation: The string is not a palindrome.

Input: "madam"

Output: True

Explanation: The string is a palindrome.

Function signature

```
def is_palindrome(s: str) -> bool:  
    pass
```