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1  # name: Justin Dang
2  # Student ID: 1148267
3  # Homework 3, Problem set 2
4  ""
5  Detects wether the string entered is a palindrome
6  ""
7  #Reverses string and checks if what the user entered was a palindrome
8  def isPalindrome()->(bool):
9      STRING = str(input('Enter a String : '))
10     for x in range(0, len(STRING)):
11         if STRING[x] != STRING[-(x+1)]:
12             print(STRING, 'is not a palindrome')
13             break
14         else:
15             print(STRING, 'is a palindrome')
16             break
17
18 #Determines how many times the user would like to check if a word is a palindrome
19 def main():
20     COUNT = 1
21     USERINPUT = int(input('How many words do you want to check?'))
22     while COUNT <= USERINPUT:
23         COUNT += 1
24         isPalindrome()
25         print()
26
27 if __name__ == '__main__':
28     main()
29
30 ## Output with test cases
31 ##
32 ## Test Case 1.
33 ##
34 ##How many words do you want to check?2
35 ##Enter a String : 34
36 ##34 is not a palindrome
37 ##
38 ##Enter a String : noon
39 ##noon is a palindrome
40
41 ## Test Case 2.
42 ##
43 ##How many words do you want to check?2
44 ##Enter a String : 121
45 ##121 is a palindrome
46 ##
47 ##Enter a String : help
48 ##help is not a palindrome
49
50 ## Test Case 3.
51 ##
52 ##How many words do you want to check?5
53 ##Enter a String : 123321
54 ##123321 is a palindrome
55 ##
56 ##Enter a String : noon
57 ##noon is a palindrome
58 ##
59 ##Enter a String : poop
60 ##poop is a palindrome
61 ##
62 ##Enter a String : palindrome
63 ##palindrome is not a palindrome
64 ##
65 ##Enter a String : dog
66 ##dog is not a palindrome

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67
68 ## Test Case 4.
69 ##
70 ##How many words do you want to check?3
71 ##Enter a String : three
72 ##three is not a palindrome
73 ##
74 ##Enter a String : four
75 ##four is not a palindrome
76 ##
77 ##Enter a String : god
78 ##god is not a palindrome
79
80 ## Test Case 5.
81 ##
82 ##How many words do you want to check?4
83 ##Enter a String : follof
84 ##follof is a palindrome
85 ##
86 ##Enter a String : wow
87 ##wow is a palindrome
88 ##
89 ##Enter a String : meater eater
90 ##meater eater is not a palindrome
91 ##
92 ##Enter a String : meateretaem
93 ##meateretaem is a palindrome
```