

PythonSummerSchool2019-Assignment3-Hongyu(Ray)

July 22, 2019

1 Palindrome 1

Write a program that will print the the following string:

```
abcdefghijklmnopqrstuvwxyzxwvutsrqponmlkjihgfedcba
```

(It is not allowed to do this hardcoded.)

2 Palindrome 2

This assignment takes of where Palindrome 1 has finished. Make a copy of Palindrome 1 and edit

- read a letter from standard input
 - print the string from Palindrome 1 up to this letter
- For example, if the letter was c, the output would be: abcba
-

3 Pyramid

Write a program that prints a pyramid made of letters in the middle of the screen. Use function

```

a
aba
abcba
abcdcba
abcedcba
abcdefedcba
abcdefgfedcba
abcdefghgfedcba
abcdefghihgfedcba
abcdefghijkjihgfedcba
abcdefghijklkjihgfedcba
abcdefghijklmlkjihgfedcba
abcdefghijklmnmlkjihgfedcba
abcdefghijklmnonmlkjihgfedcba
```

4 Collatz conjecture

One of the most renowned unsolved problem is known as the Collatz conjecture (Please check it out [here](#))

Try both “%” and “&” to test whether a number is even or odd.
