

## Palindrome Substrings

$h = "abc"$

output = 3

'a', 'b', 'c'

$h = "aaa"$

output = 6

'a', 'a', 'a', 'aa', 'aa', 'aaa'

We know each single letter is a palindrome, the remaining substrings are  $(len(h) - i)$  until substring is a single letter

We create a var and each time a substring is a palindrome, we add 1

$h = "cushsq"$

output = 8

- cshsq

- shs

- each letter (6)

$c \neq a$ , we make  $start\_index + 1$

$a = a$ , we make  $temp\_start + 1$  &  $temp\_end - 1$

count = 1

$s = s$ , same as before

count = 1

$h$  is already a palindrome

if  $s$  var + 1 = 1 add

$a \neq s$ , make  $temp\_start$

$s = s$

$h$ , already palindrome,

count = 2

$s = h$

$temp\_start < temp\_end$

$$2 + 6 = 8$$