**WEEK 3: Practice Quiz – Exact Matching**

**100% on 1st attempt**

1. AAAA.
2. 4

*ACA TAC ATA CAC A*

1. S(8) = 5 (ACATA)

S(9) = 6 (ACATAC)

S(10) = 7 (ACATACA)

S(11) = 2 (AC)

1. ACA TAC ATA CAC A

From previous question,

[0, 0, 1, 0, 1, 2, 3, 4, 5, 6, 7, 2, 3] is the array

While loop is called when s[i+1] != s[i] + 1, and it is called s[i+1] – s[i] times.

String is 13 characters long. So it would be called a minimum of 12 times ,excluding s[0] = 0.

It is called 1 additional time when i = 3.

It is called 5 additional times when i = 10

Total = 13 + 1 + 5 = 19 or 13 + 1 + 1 = 15