

Time complexity from /1-1.cpp/

$n = \text{size}$

i is impossible larger than size

Worst Case:

$$T(n) = c_1 + c_2 + c_3 + c_4 * n^2 + [(c_5 + c_6 + c_7) + c_8 * n + c_9 + c_{10} + c_{11} + c_{12} + c_{13} + c_{14} * n + c_{15} + c_{16}] * n * (n - i) + c_{17} * n$$

$$O(T(n)) = n^3$$

Best Case:

(If only have one palindromic-substring)

$$T(n) = c_1 + c_2 + c_3 + c_4 * n^2 + [(c_5 + c_6 + c_7) + c_8 + c_9 + c_{10} + c_{11} + c_{12} + c_{13} + c_{14} + c_{15} + c_{16}] * n * (n - i) + c_{17} * n$$

$$O(T(n)) = n^2$$