

Q Find out palindromic substrings in a string

n a m a n

→ if it reads same forward or backward.

Ap ①

n
na
nam
nama
namaa

a
am
ama
amaa

m
ma
maa

a
aa

n

$O(n^2) \rightarrow O(n) \rightarrow O(n^3)$

①

n a m a n

b a c c a b

same.
palindrome
n length string (5)

same
p??

b a b b a b
a b b a

b a b b a b

String Builders

→ Immutability of string in java

string is stored in a special area known as string constant pool.

Syntax:

String Builder sb = new StringBuilder();

Q Toggling cases

① Input: → abcgeA
output → ABCgEa

② Input → AcdyBC
output → aCDYbc

Q Given a string, find the length of longest substring without repeating characters.

Eg: ① s = abcabcbb
ans → 3 (abc)

② s = pwwkew
ans → 3 (wke)

sliding window

ans = 2 3 4 5 6 7
(j - i + 1)
5 - 4 + 1 = 2
10 - 4 + 1 = 7

char	index + 1
a	6
b	12
c	3
d	4
e	5
f	7
g	9

Q Given a string, rearrange the characters of it, so that any two adjacent characters are not the same.

→ Return any possible arrangement of it or return "" if not possible.

Eg: s = "a a b"
ans = a b a

Eg: s = a a a b
ans = ""

- Count letters appearances and store in hash[i]
- find the letter with longest occurrence
- put the letter into even index no. (0, 2, 4) char array
- put the rest in the array.

abccdebbcc

a → 1
b → 3
d → 1
c → 5
e → 1

c b c b c b e a c d e

Recursion

Given a string, find its subsequences.

Eg: abc

subsequences: a b c ab ac bc abc

Eg: aaa

output → a aa aaa