

first of all. What is the Palindromic

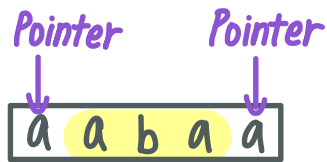
Palindrome means if you read from the starting or from the end

It's going to read the same. means from right to left or left to right

1. Check whether the entire string is a Palindrome or not.

- if the entire string is a palindrome,

2. move two Pointers

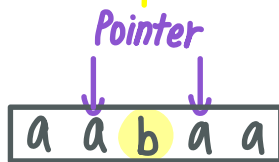


check if the last characters are equal or not

$a == a$

전체 : 가운데는 '이미' Palindrome

Pre-condition : in the middle inner range of string already computed is a palindrome already.



Pointer = in the middle



• Represent as DP

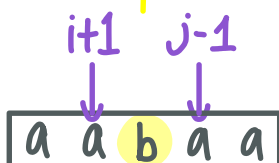
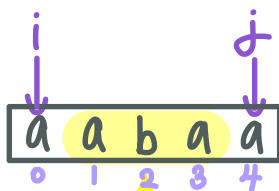
1. if $String[i] == String[j]$

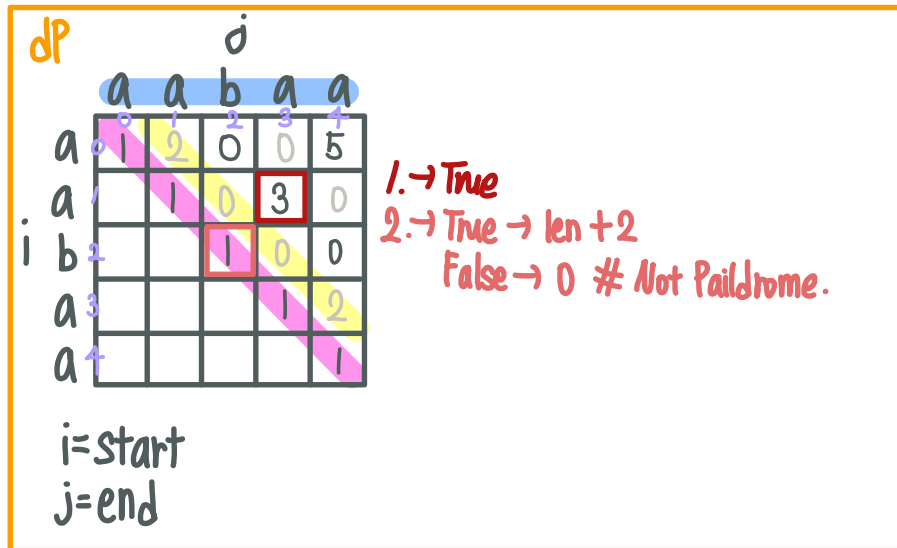
2.

$DP[i][j] = DP[i+1][j-1] + 2$ #length

0 4

return must be "True"





• implement code

//cpp

int n = s.size();

vector<vector<int>> dp (n, vector<int> (n, 0));

String ans;

int maxlength = 0;

for (int diff = 0; diff < n; diff++)

{

for (int i = 0, j = i + diff; j < n; i++, j++)

{

if (i == j)

{

dp[i][j] = 1;

{

}

else if (diff == 1)

{

dp[i][j] = (s[i] == s[j]) ? 2 : 0;

}

else

}

if (S[i] == S[j] && dp[i+1][j-1] [★])

dp[i][j] = dp[i+1][j-1] + 2;

if (dp[i][j])

}

^{'aba' → 2-0+1 = 3}
^{끝 index - 시작 인덱스 + 1 = Palindrome 길이}

if (j-i+1 > maxlength)

{

maxlength = j-i+1;

ans = s.substr(i, maxlength);

}

^{Cut string from start index, to length}

}

}

}

return ans;