

Day5

Tuesday, 14 May, 2024 08:28 PM

Handwritten notes and code for a string counting problem.

Handwritten notes:

- $currCh = "c"$
- $count = 1$
- $ans = a/b2$
- $i = 1$
 $ch = b$
- $i = 2$
 $ch = b$
- $i = 3$
 $ch = c$

```
1 let str = "abccac"
2
3 let currCh = str[0]
4 let chCount = 1
5 let ans = ""
6
7 for(let i=1; i<=str.length; i++){
8   const ch = str[i]
9   if(ch===currCh){
10    chCount++
11  }else{
12    if(chCount===1){
13      ans+=currCh
14    }else{
15      ans+=currCh+chCount
16    }
17    currCh = ch
18    chCount = 1
19  }
20 }
21
```

Handwritten notes for a substring problem.

ABCD

Substring → continuous parts of string

A	B	C	D
AB	BC	CD	
ABC	BCD		
ABCD			

Handwritten notes for a substring generation algorithm.

ABCD

Start

$i = 0$
 $j = i$

$i = 0$
 $j = 0$

$subs = "ABC"$

$subs += str[j]$
 $Print(subs)$

$j = 1$

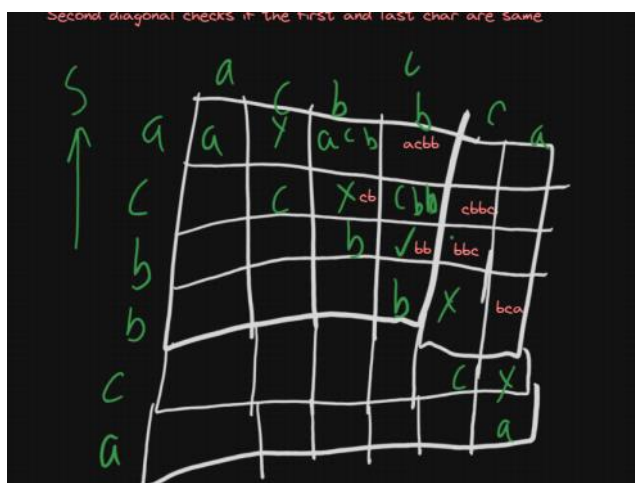
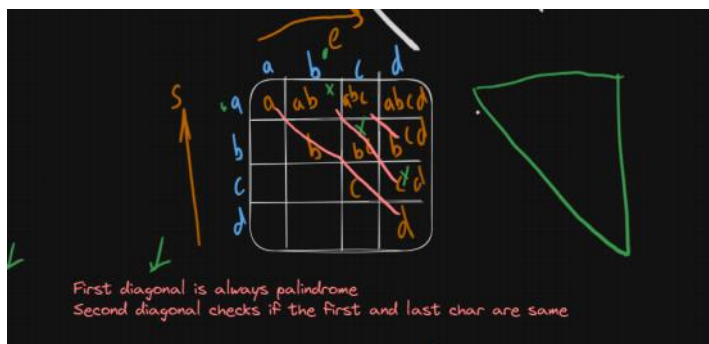
$subs += str[j]$

$j = 2$

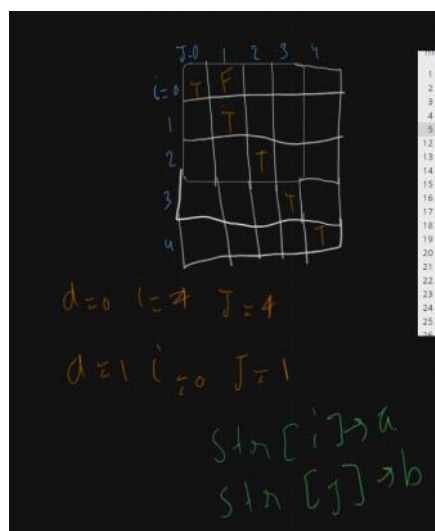
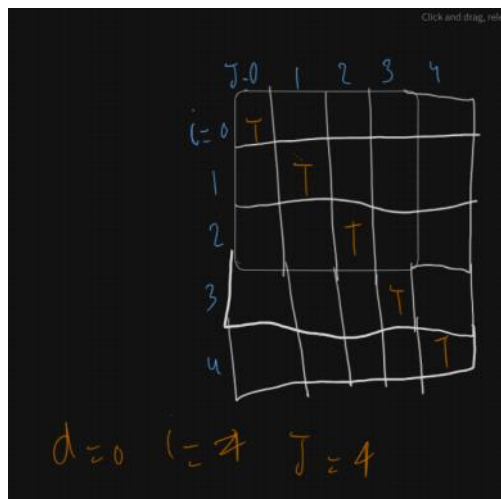
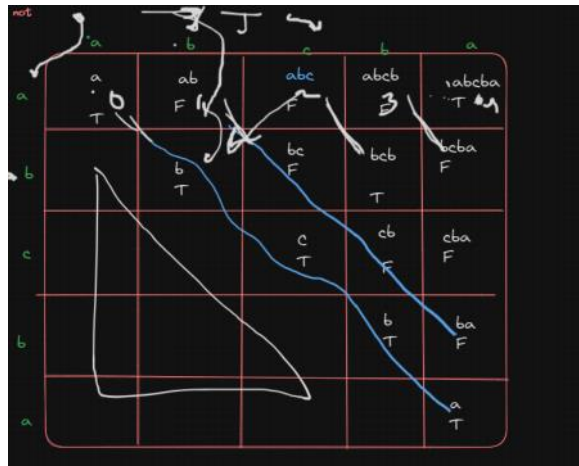
$subs += str[j]$

Find each substring
check if this is palidrome

For 1 - 0 - h
For J - i - h
while



- 1, First diagonal is always palindrome
- 2, Second diagonal checks if the first and last char are same
- 3, All other diagonals has to check the first and last char are same or not and the prev digonal value is true or not



Handwritten table with indices i and j ranging from 0 to 4. The table contains 'T' (True) and 'F' (False) values. A blue arrow points right above the header, and a blue arrow points down to the left of the header.

$i \backslash j$	0	1	2	3	4
0	T	F	F		
1		T	F	T	
2			T	F	
3				T	F
4					T

Handwritten notes on a black background:

$d = 1, i = 0, j = 1$

$str[i] \rightarrow a$
 $str[j] \rightarrow b$

$j = 1, i = 1, j = 2$

$j = 2, i = 0, j = 2$