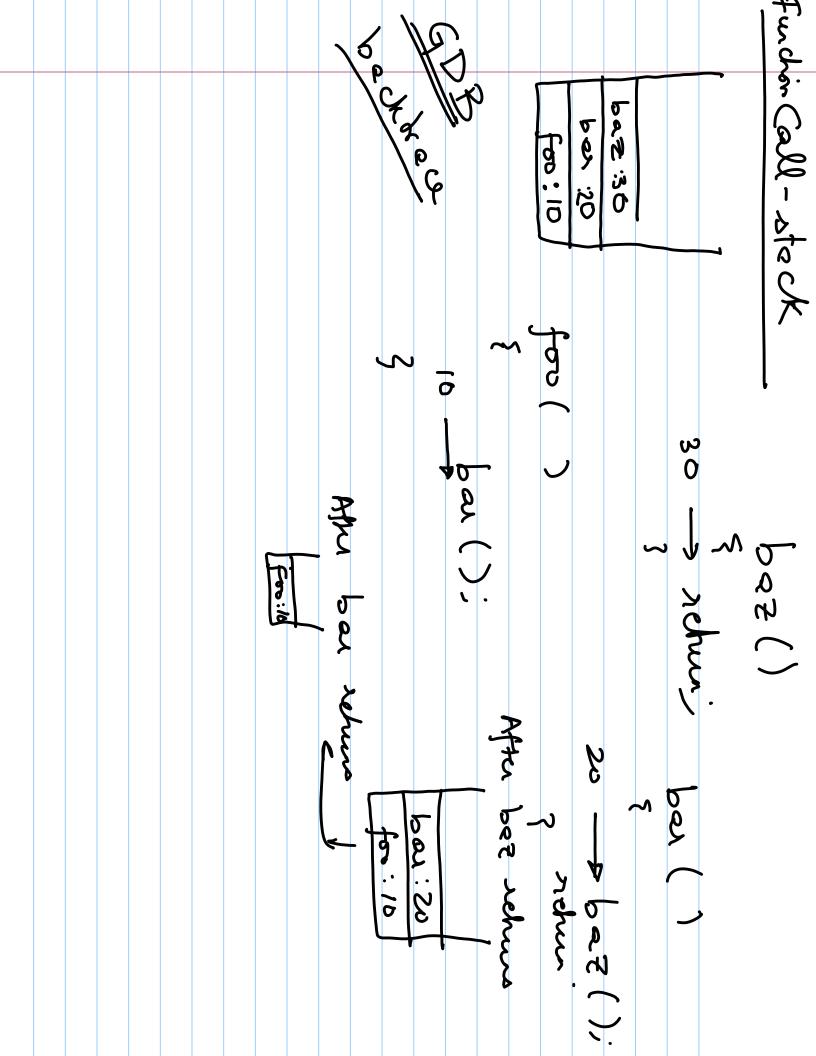
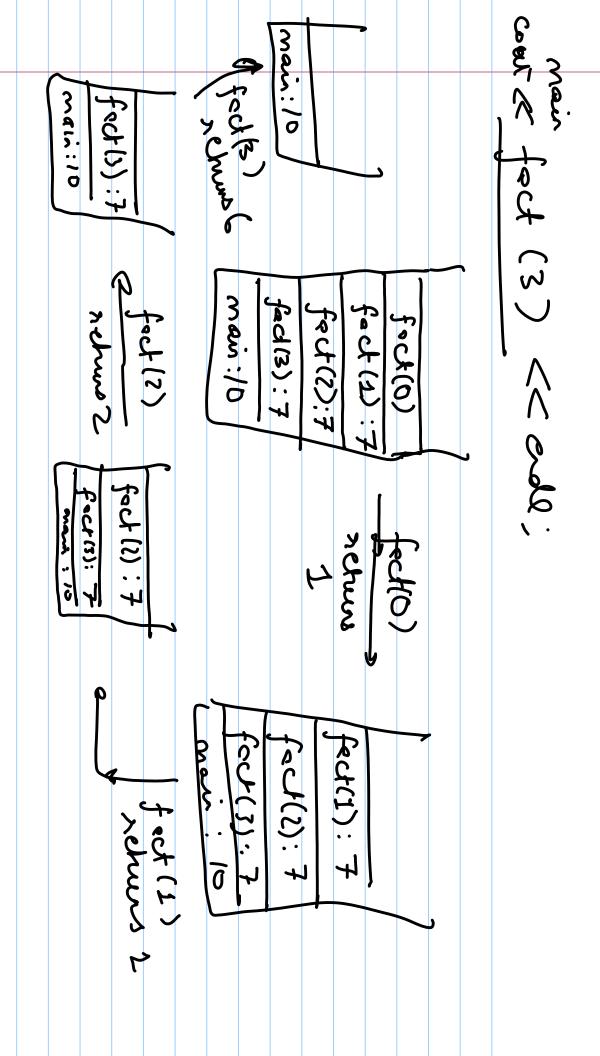
01-11-2018

Keview: Kecursian 3 rules of recursion base gaje

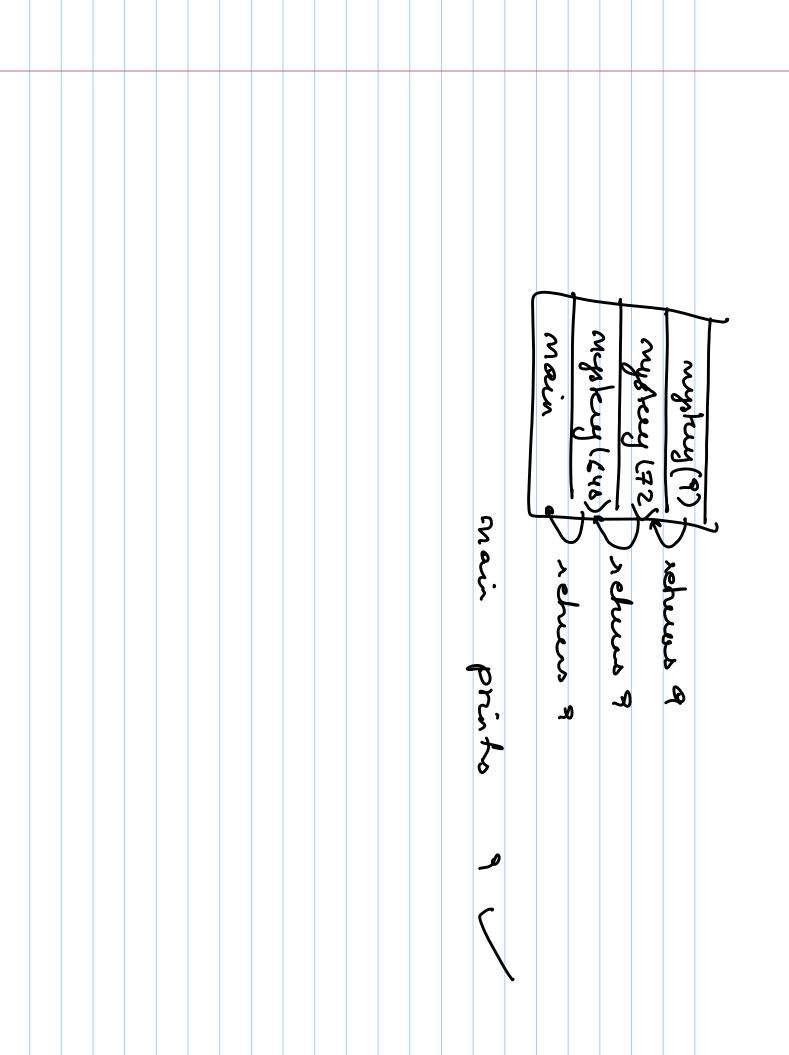
fact (int n) recursive computation

w ( ) | | 0 retur 1; 69% b





```
cont << mystery (643)
                                                                     mystery (in)
                                          School
                                                          (> < 10) &
                                                  >chus >
                                  2,
                         $·
                  schus
               b= 7:10;
                                 >/10;
```



Polindrone MACAYAC & M

MAD ABN

"STEP OZ RACECA K

20

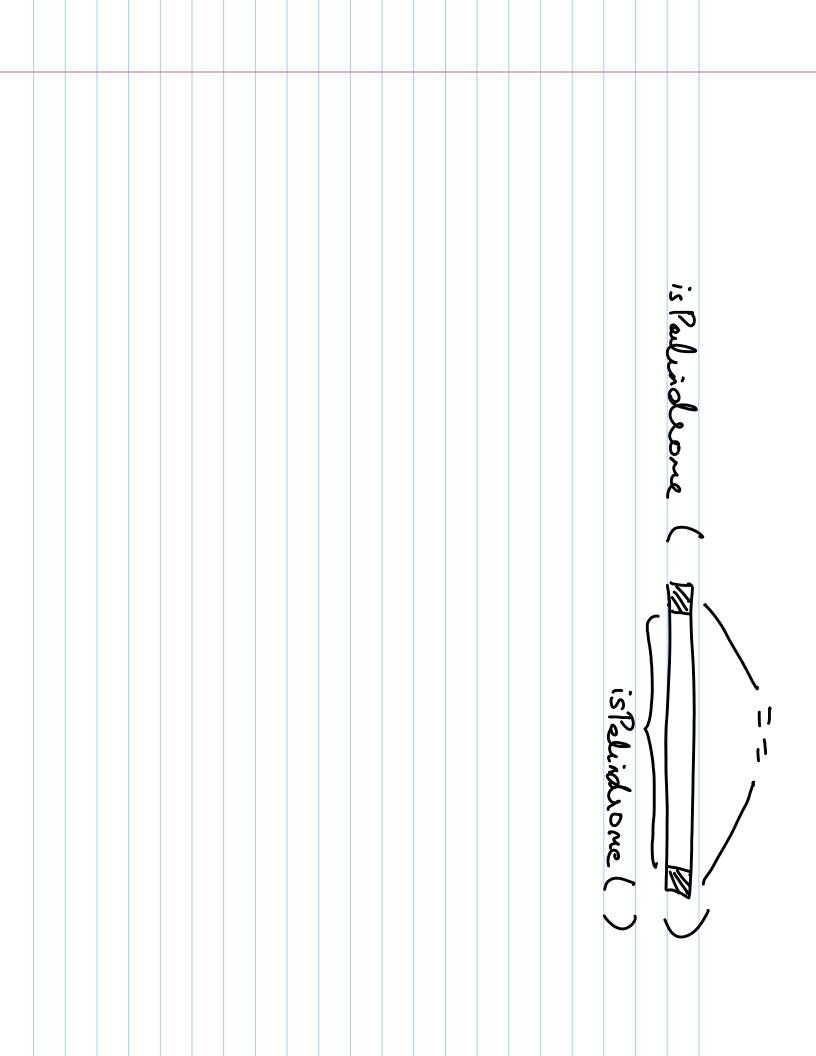
PETS"

= D<sub>=</sub>

· Java "

```
bool
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if ( s. length () == 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      istaliadrane (string court & 8)
                                                                                                                                                                                                                                                                                                                                                                                                           3 che if (s.length()==1) {
3 che return true;
3 che {
5 che {
5 che {
6 che }
7 che }
8 che }
9 che }
1 che }

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           schur brue:
retur : SPalidrone (s. substr (1, 5))
                                                                                                                                                                                                                                                                   3 retur Jelse
```



Kecursian Big - 0 O computation in self-similer

1.e can be expressed es

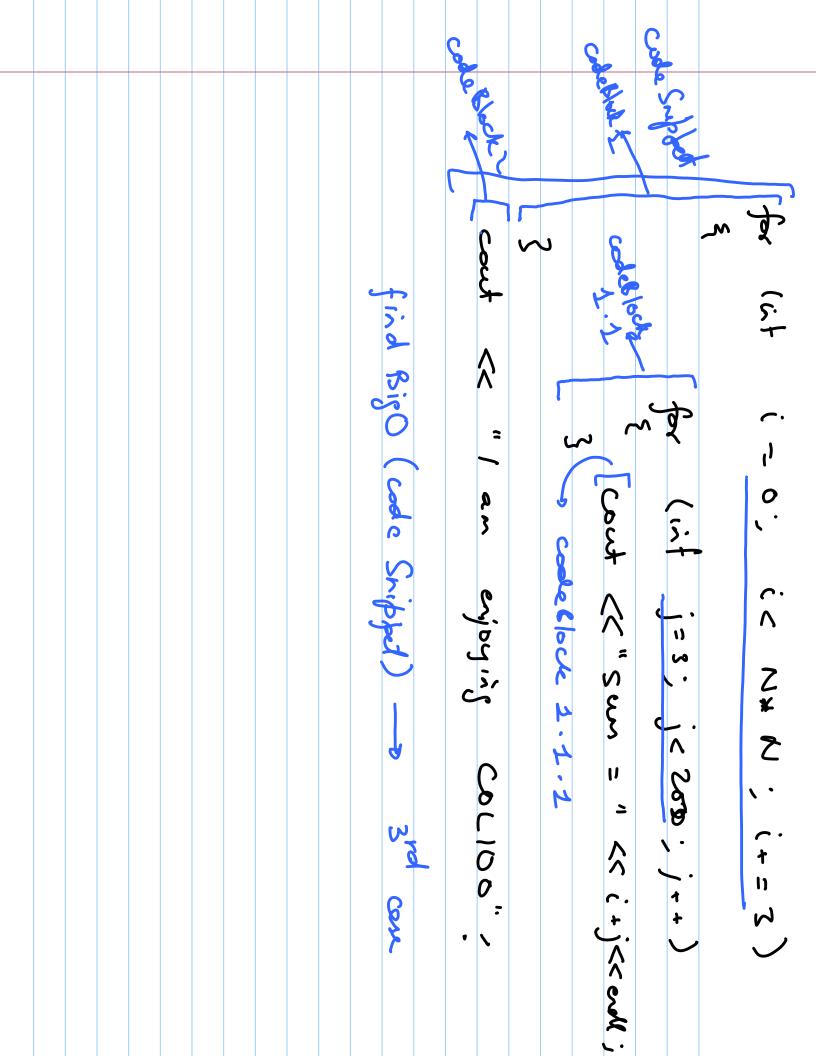
Sig-O computation

Sig-O computation 18- O

PSEUDO - CODE

w rough akeful of the code
(includes the
algorithm)

and wants else find Big O (code Snippet): code Snipped retur // code Snippert = codeslocky; codeslocky; ... code Block in code Snippet: とれて code Snipper in a \* find Big O (loop-booky) sum of find sig O (code Block) (14)0 single statement = : of and



find Big ( Code Snipped)

find & is (D) ( wde R 10 de I) + find big 0 love

11 O(N2) \* findsijo(code8) ck1.1)

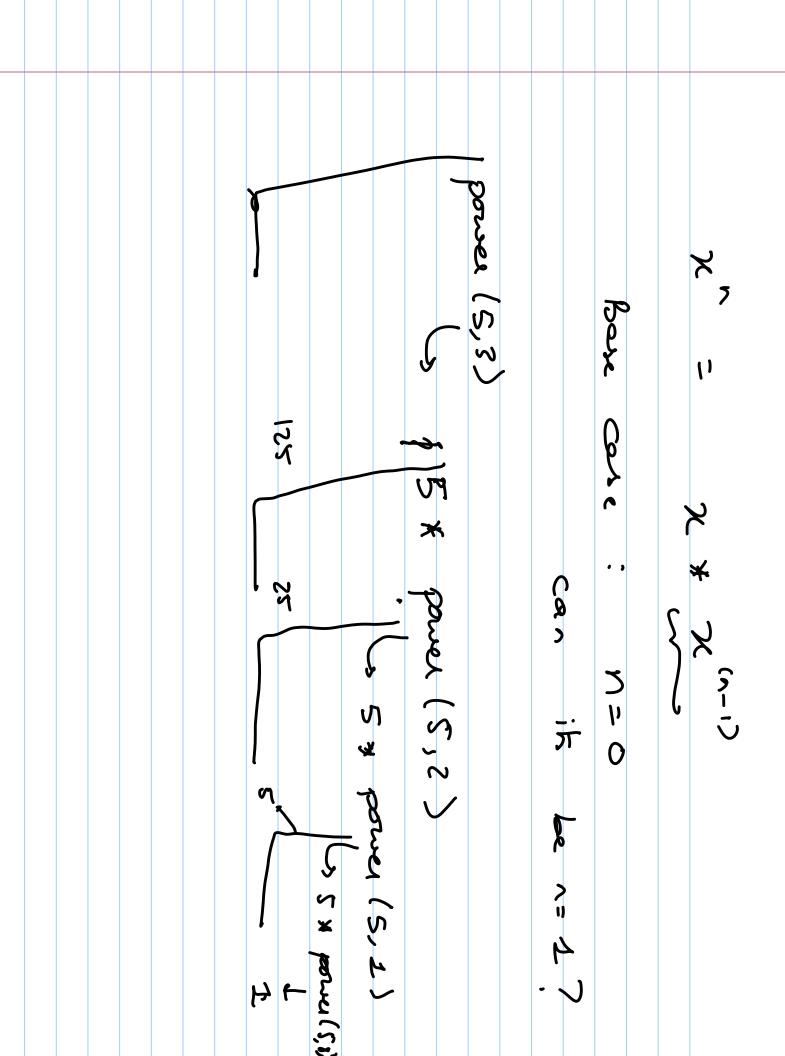
+ find Big O (code Block 2)

O(N2) \* ( D(2) \* find Big O ( code 15) ~ ( 1.1.1))

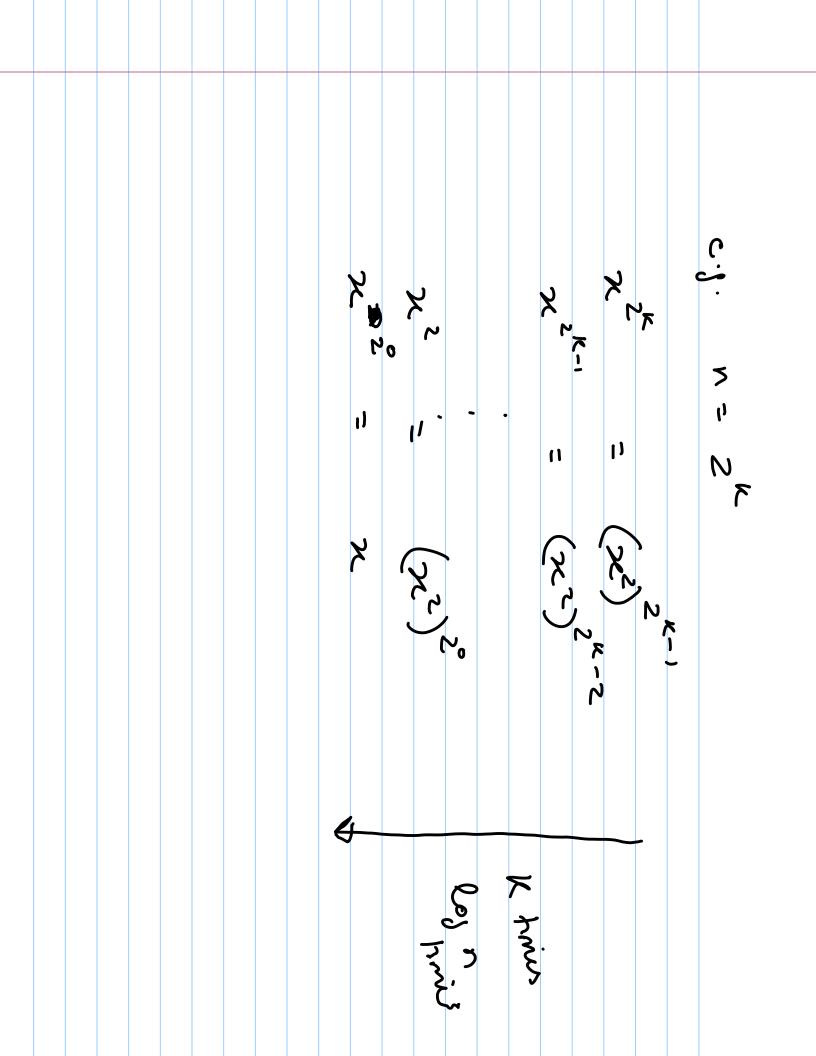
+ find big O (cooked) buch 2)

0 ( 22 > O(N2) + (O(2) + O(2)) + findsigoi(coditional)

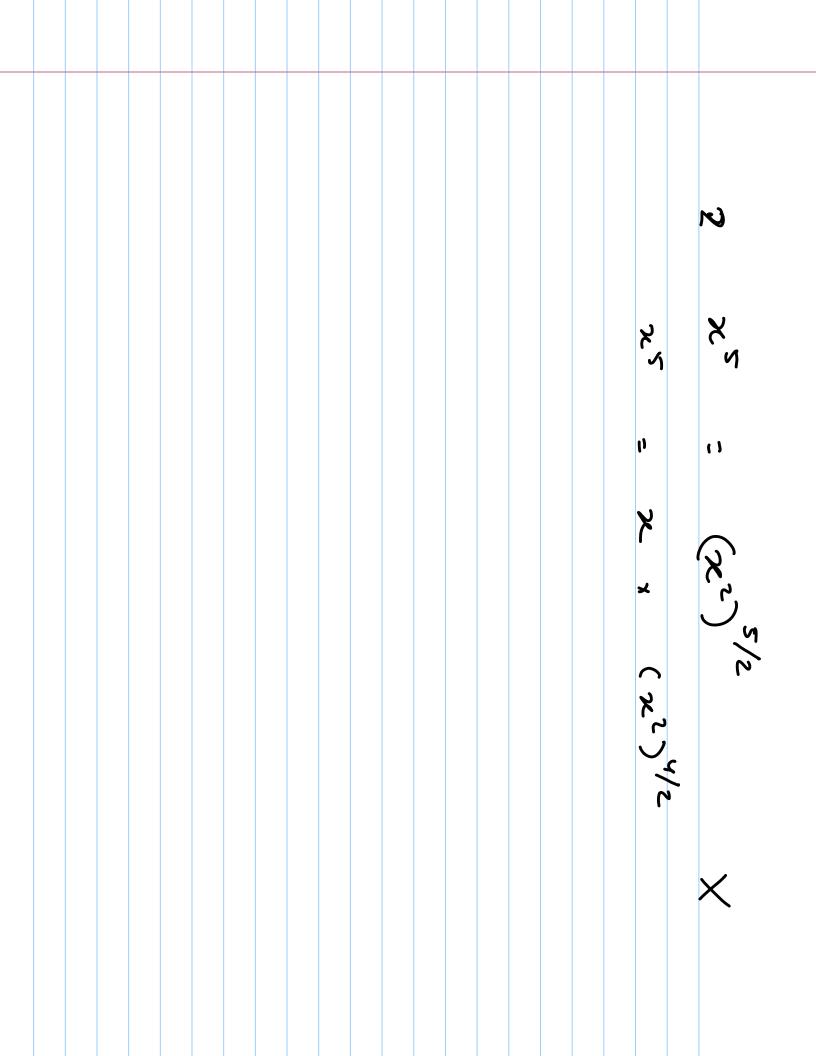
<u></u> power ( int elac s (>== 0) zehur 2; for integer velues xchur 75 x \* power (x, n-1): フ *ノ* 01/0



$$\chi^{(g)} = \chi^{(g)} \chi^{(g)}$$



<u>Ş</u>. power (int 3 cha if (n ).2 elve ? (>110) retur zetus return 2; ሂ power (x x x ) n/2) \* power(22, ~-1); ジナフノ power (x\*x, (n-1)/2) 1 1 O > <



Decimel I 20200222 128 + 32+ 4+2+1 Binary represent thai refreeeigh 1/67 2 \* 2° + 2 × 5 \* 19 + 3 \* 16 + 4 numbers

7· 2· convert from Binary (string 1/4. Convert from Binary ("202") biseu )