

Basic Terms used in T.O.C.

D Symbol:

Any character

Building block of this subJect



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9.6.(a. A.B.C. Q, \$ 9.
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2 Alphabet (\sigma):-



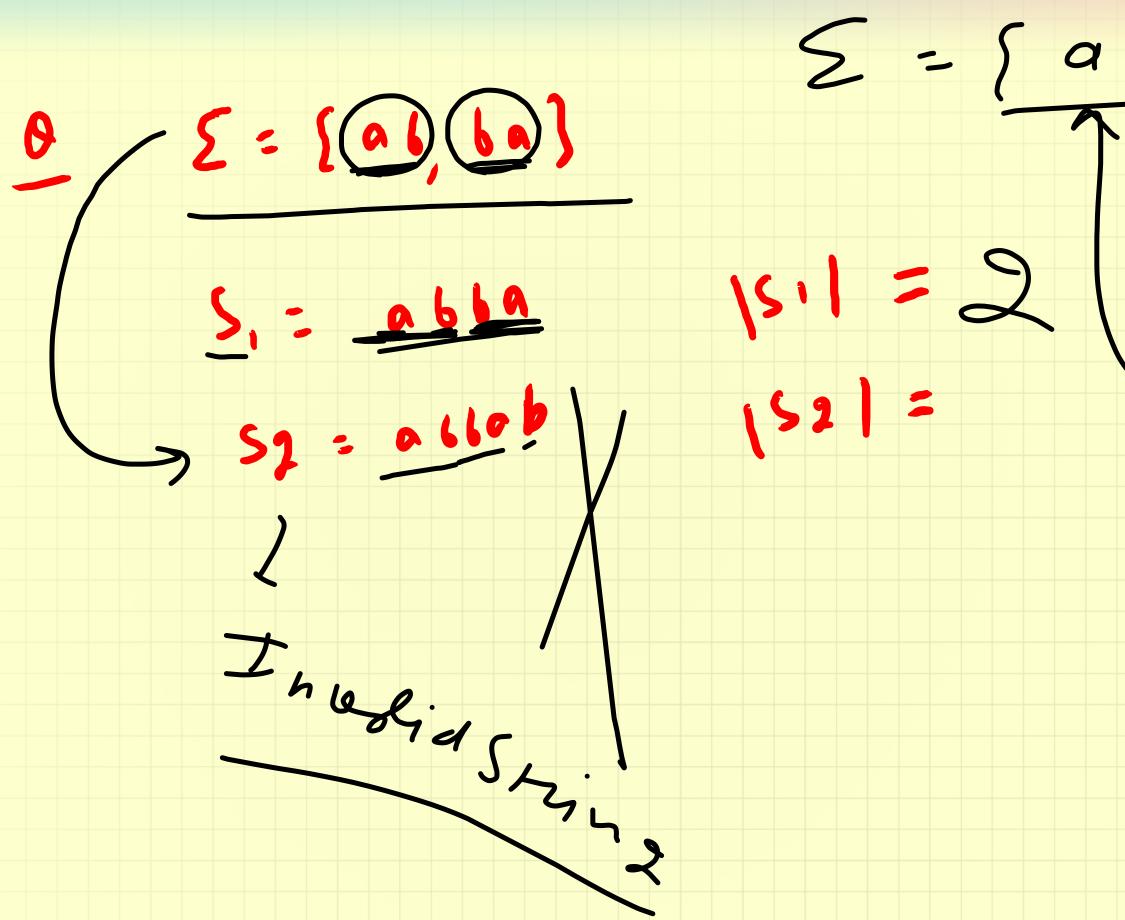


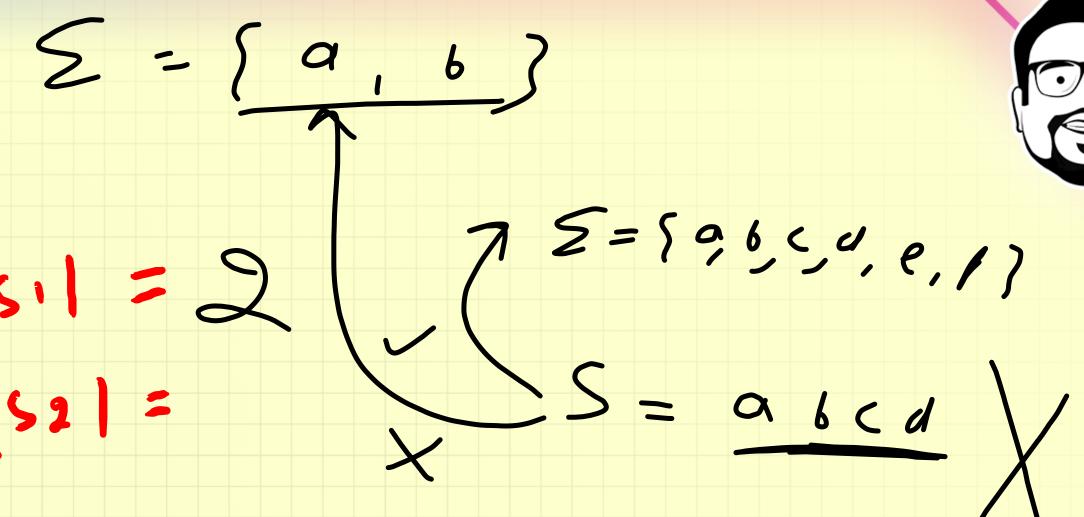
Null String 2 = 8 S= { 0,1,2, ? } 151=3 25-15 28 = 10 = 10 13:111



4 Length of String:-Number of symbols in the string

Lengu of Nullstring => 0

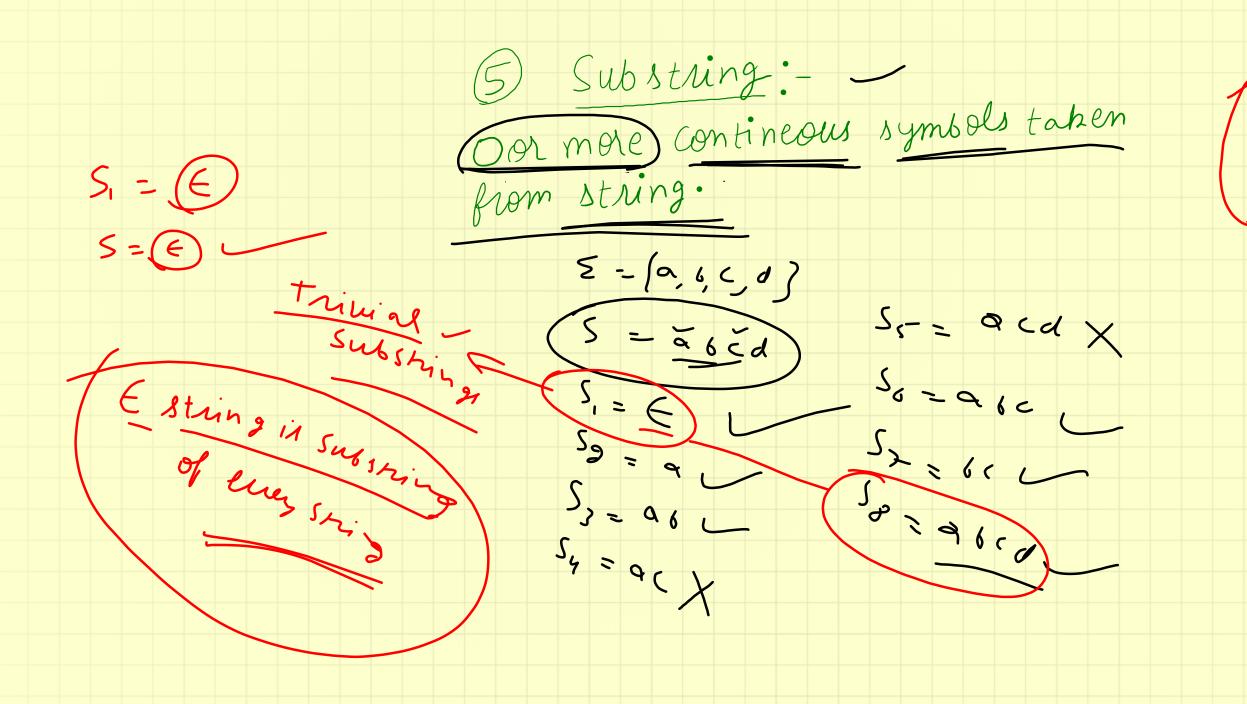






a Length of Null string! => 0







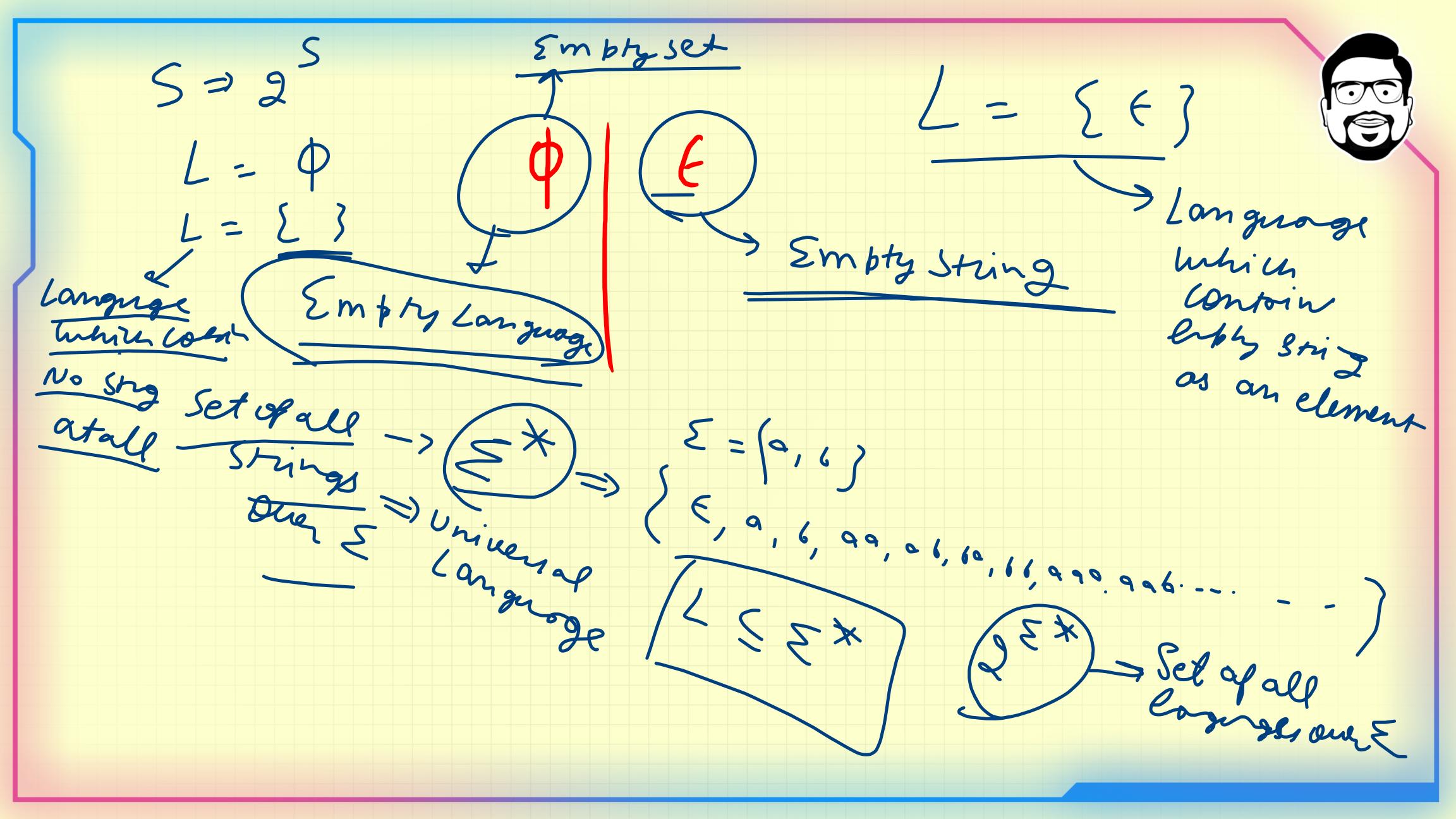
Language of star swin ends win a

L-[a, a a, b a, a a a, b a, 6 an, 6 ca] J Language of Strings over 943 <= \a_0, \a_

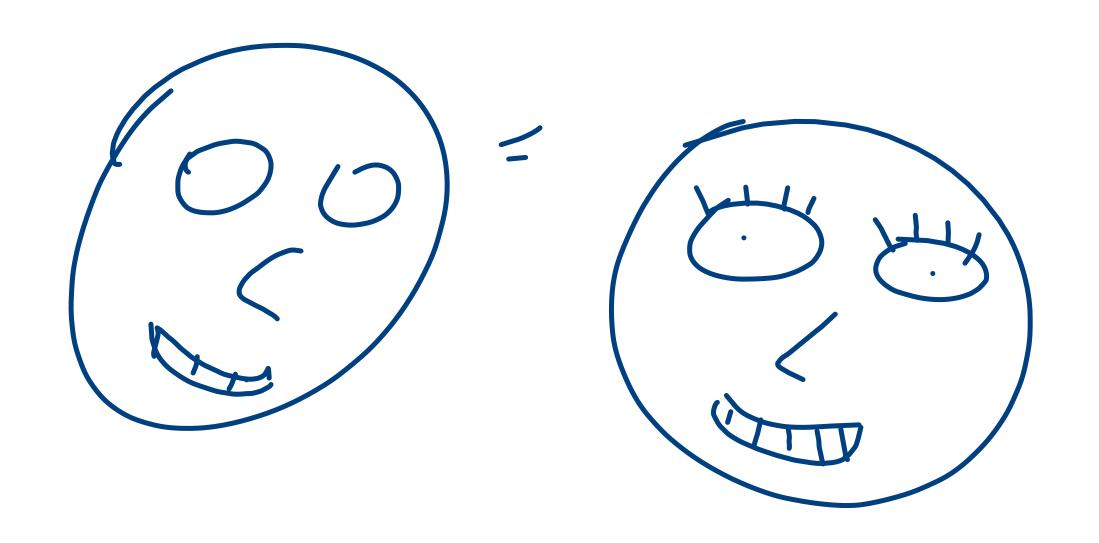
 $\leq = \{9,6\}$ = 1234126789...

How many Strings?) 3 -2 3 3 43 - 3 3 4

Vature No. 3 5, = 1237962, Mo. of Strings will book on 5 new tenes string will be p



Language > Set of strings String > Primite scawer of Sybols tox t = Emph sturd = (Emph Lagrande of () -) of



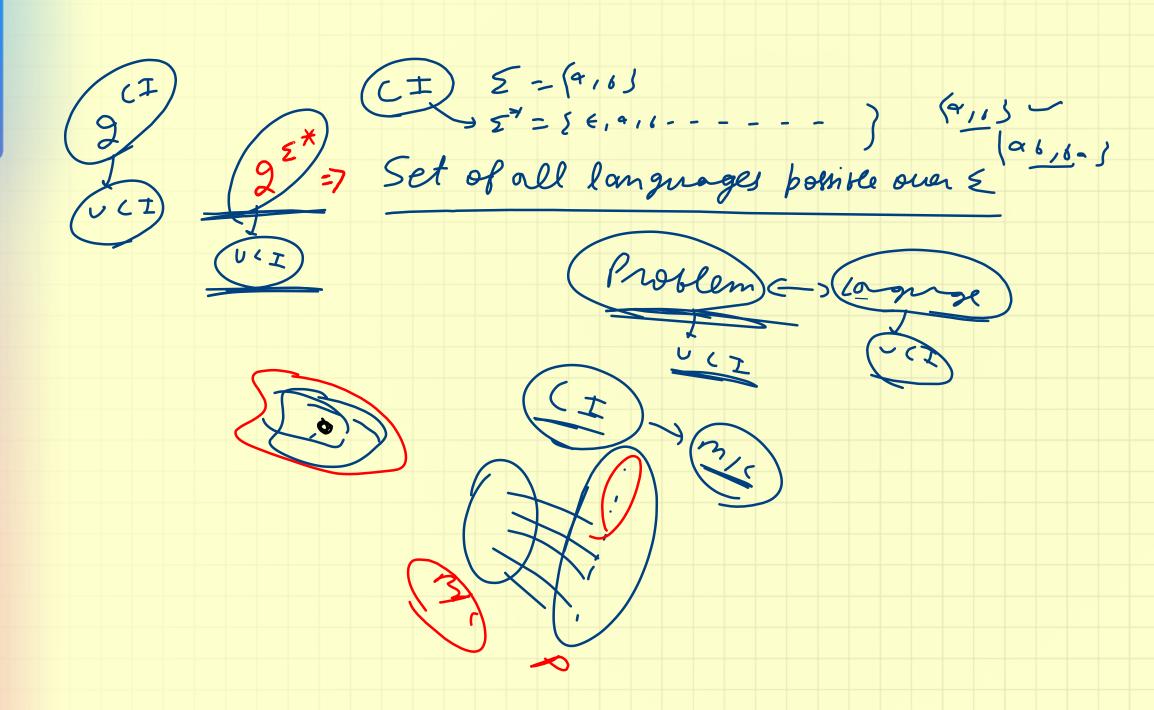


$$\Sigma = \Sigma = \{9,6\}$$

$$\Sigma = \{3\}$$

$$\Sigma = \{3\}$$







Symbol

Alphabet

String

Language

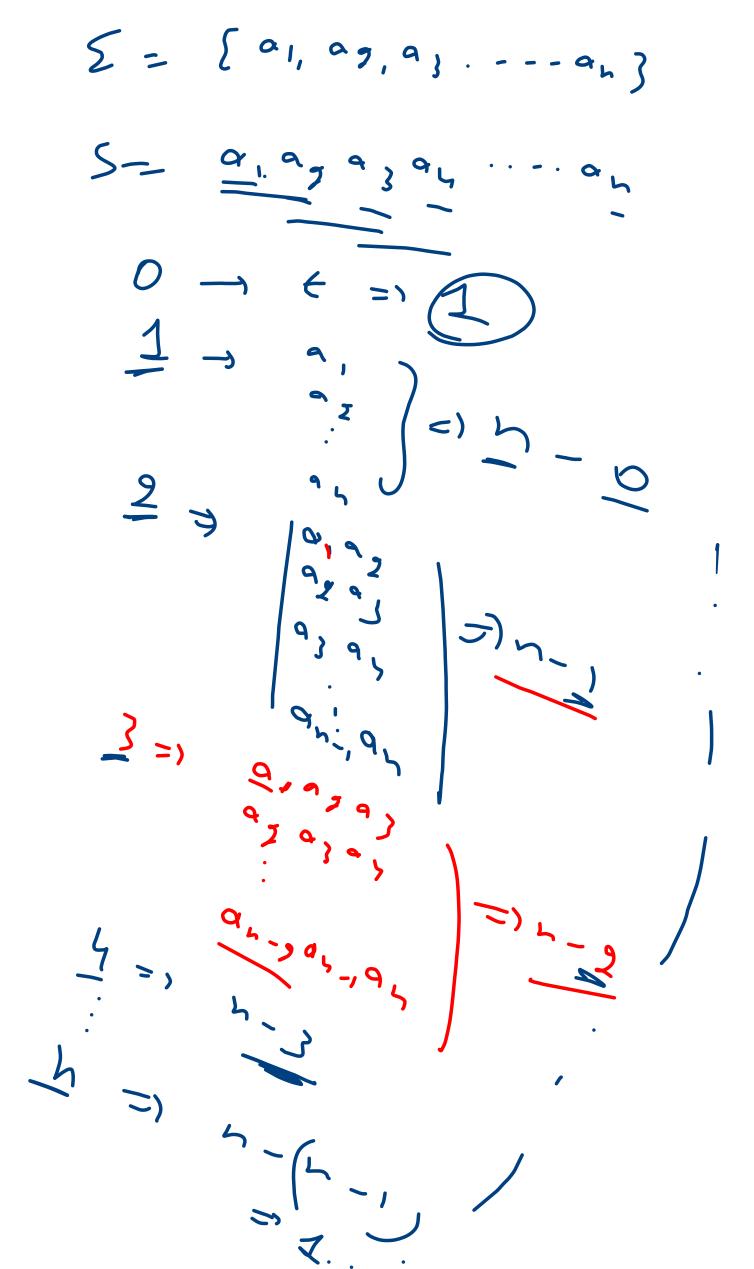


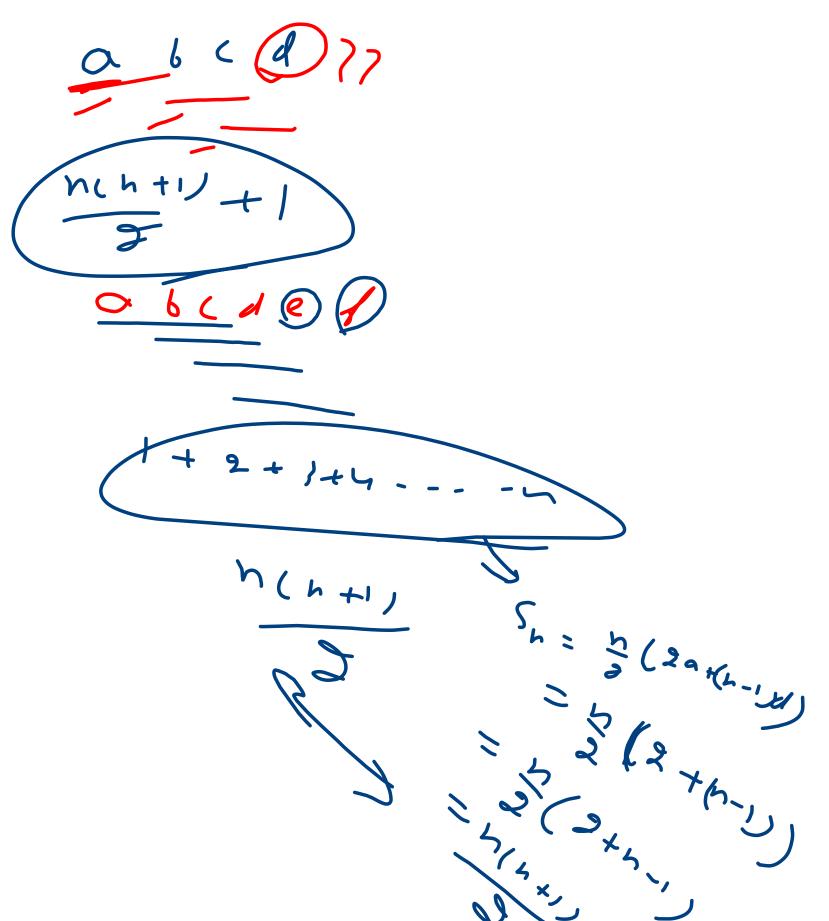
The number of substrings (of all lengths inclusive) that can be formed from a string of length *n* whose all characters are diffrent is

- a) n

- b) n^2 c) n(n-1)/2 d) n(n+1)/2+1

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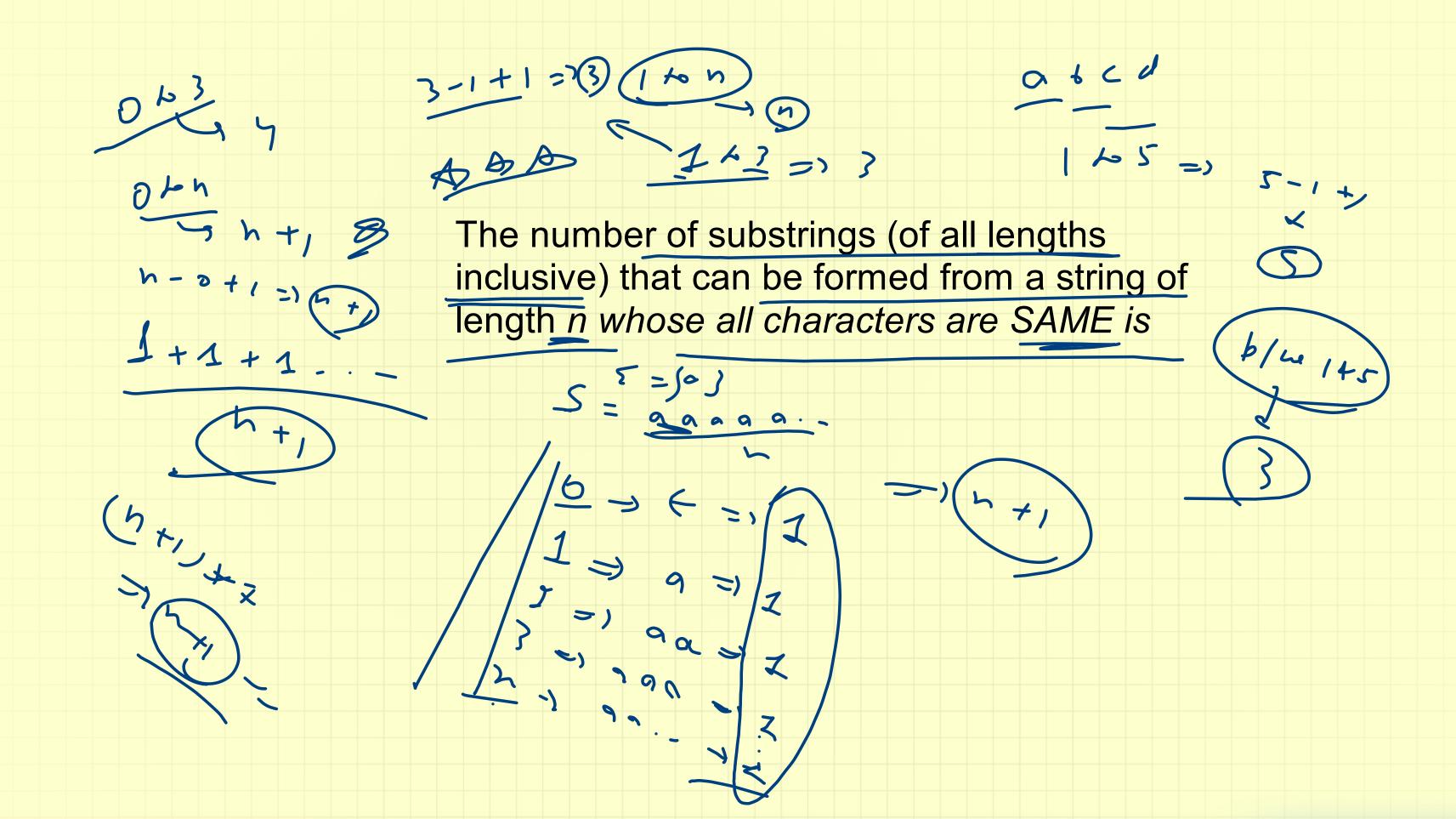




Trivial Substriz enclude Strigittly Encluded Enduded h(h+1)+1 M(h+1)+1

De Mone many Substituts of Legen 'u')



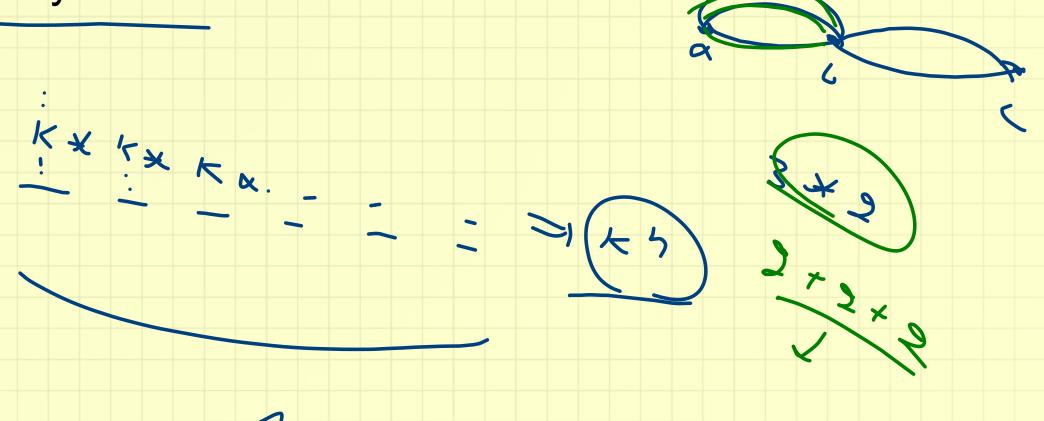


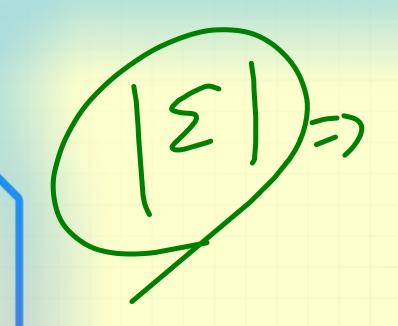


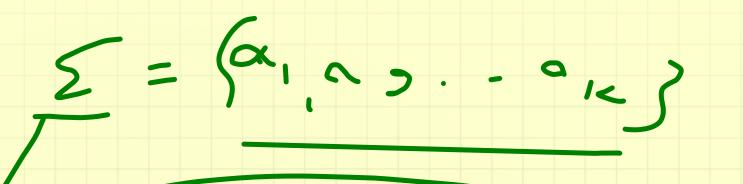
E= { a1, a2, a3 - - - a1e }

QI QI QI QI QI QK QK JK

The number of strings of length N that can be formed using K symbols

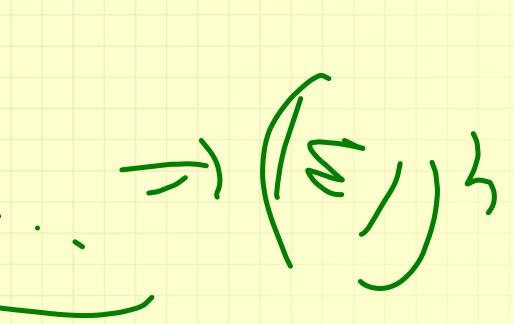


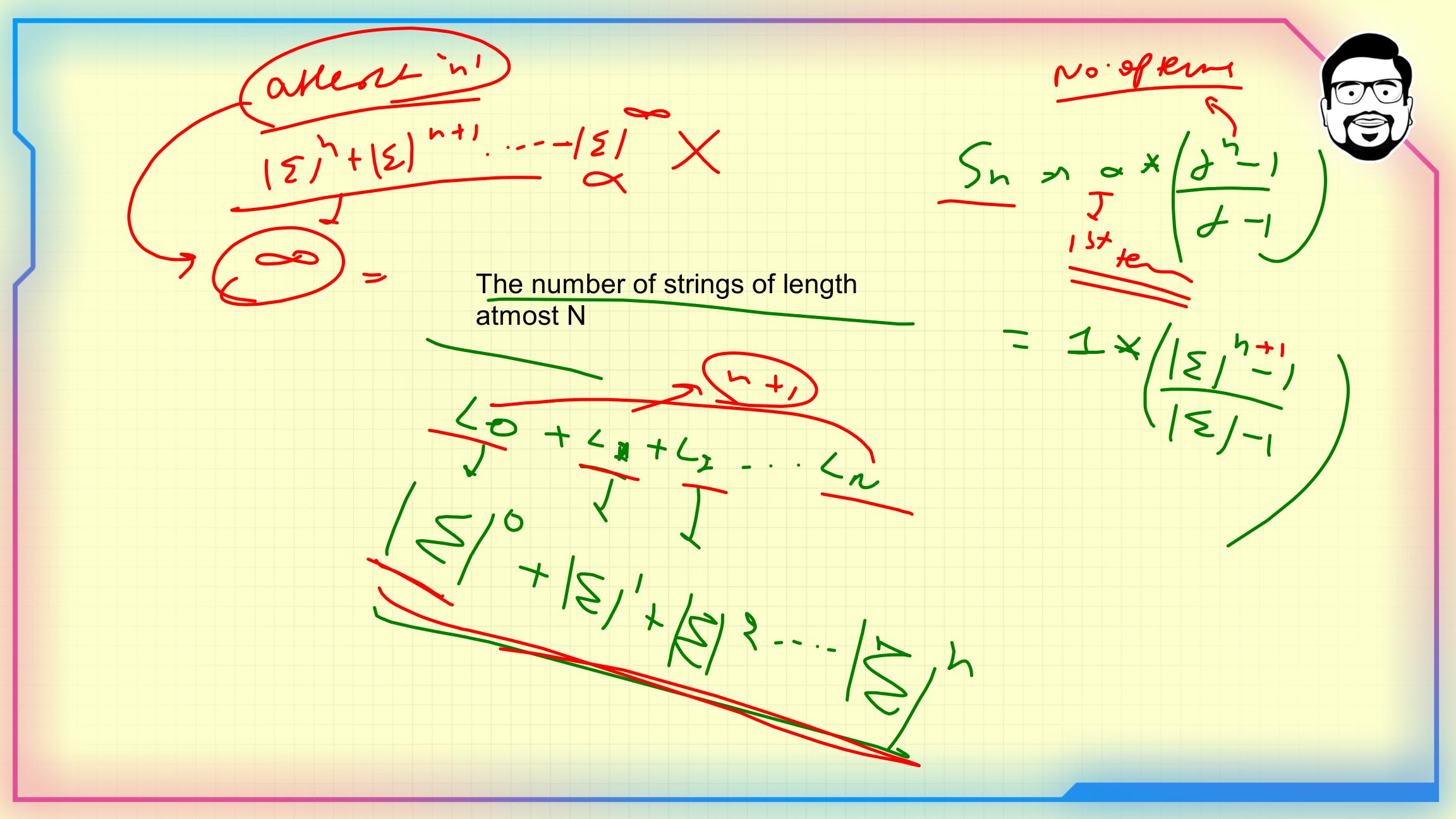






The number of strings of length N





Plant lenger

No: of stringsover E = fa, 63 will be

Lenger

Lenger 5=50.

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