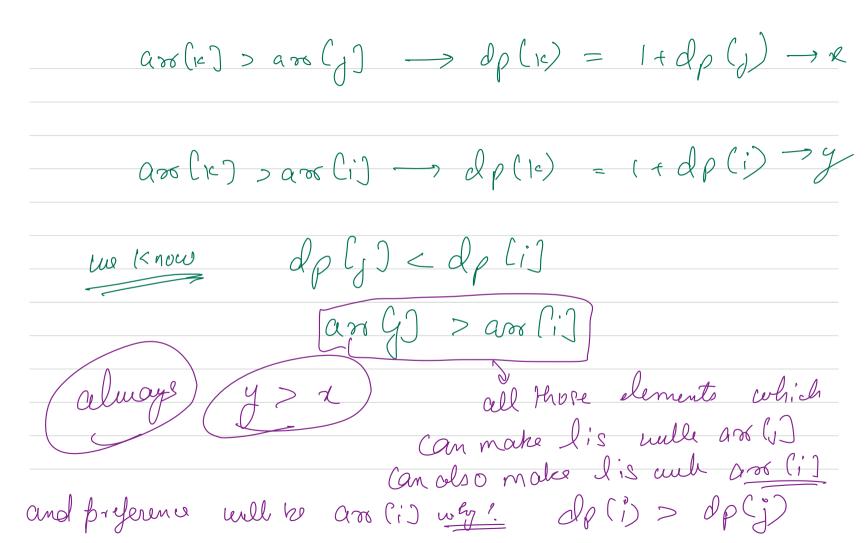


if alj/cali] 1+ max/ lenoting lis enoting al ora Final am max (f(i))

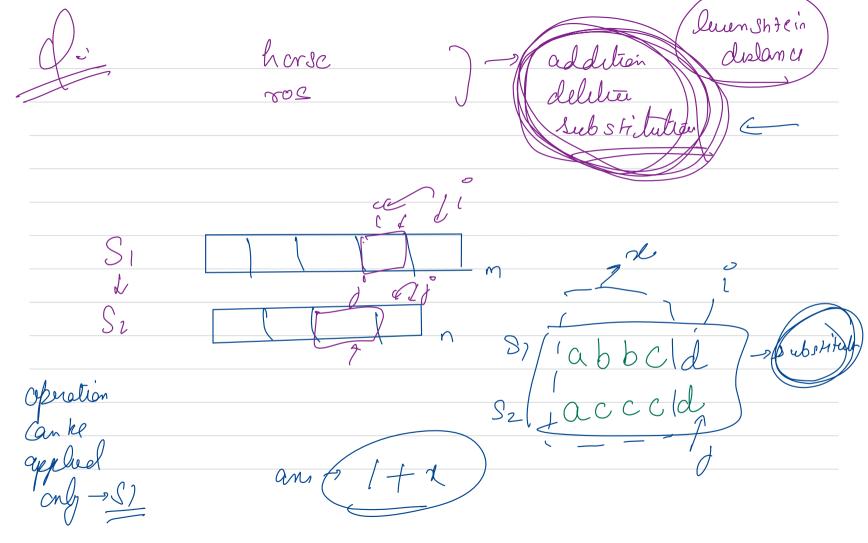
-> 1/091 (Binary Search, Sep trei Let's aptimire lie we say dp (i°) -> lis ending at ¿ ar [k] > ar [] an (10) > and (1) tjElo,i-i) -> j'<i ans[]] < ans[i] any k >i > dp(j) is ire elevent.



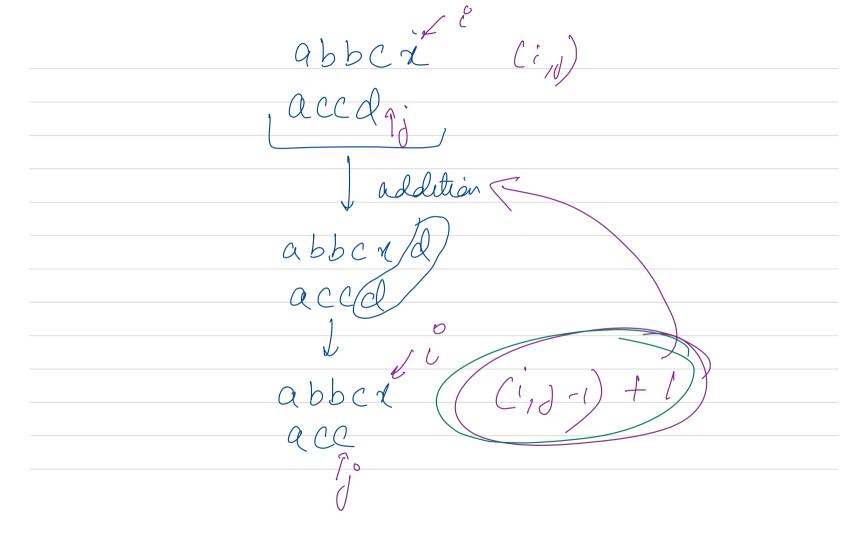
(alj) (ali) op(j) edp(i) -> con me conclude Les any inder j C- Lo, i-1) ax [] > ax [i] dp(j) < dp(i) cue can remoue the clement j from funther Consideration

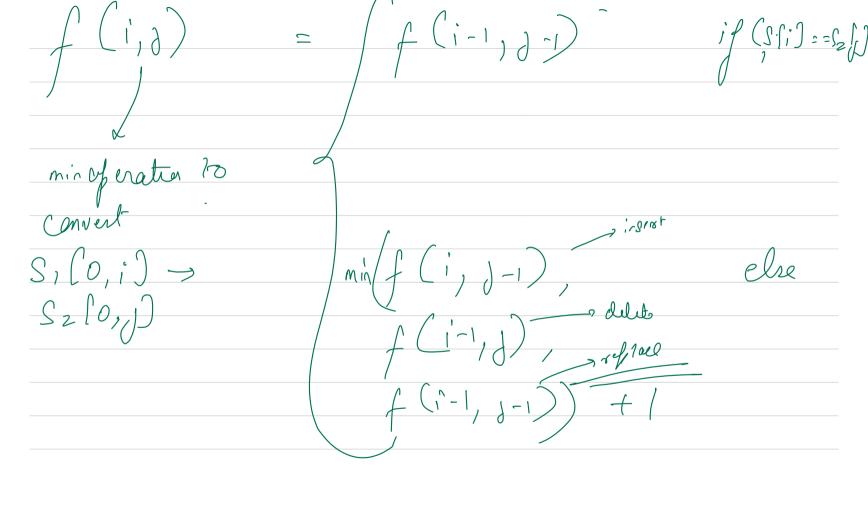
So after removals, what well ke left ?? will there be any are (1) > 9 or (1) - 9 10 we need it

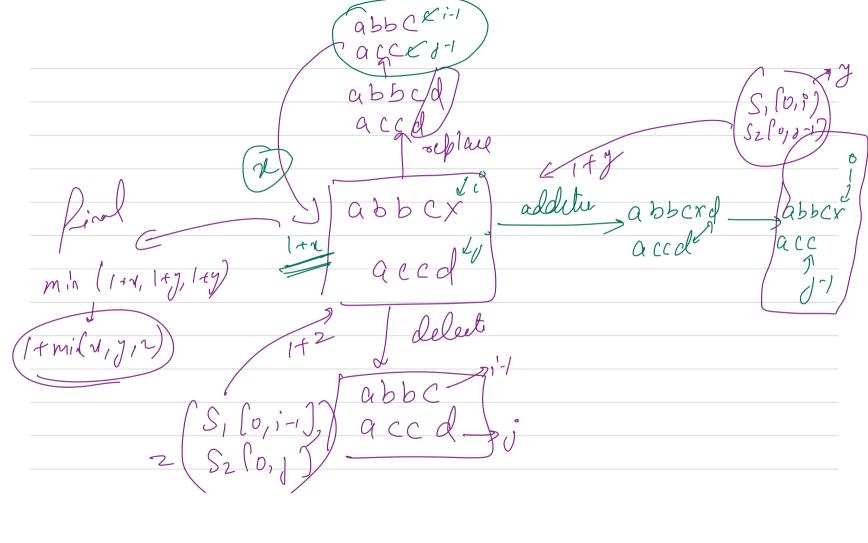
Mow about Reef Mo 8 coled Some how searrye

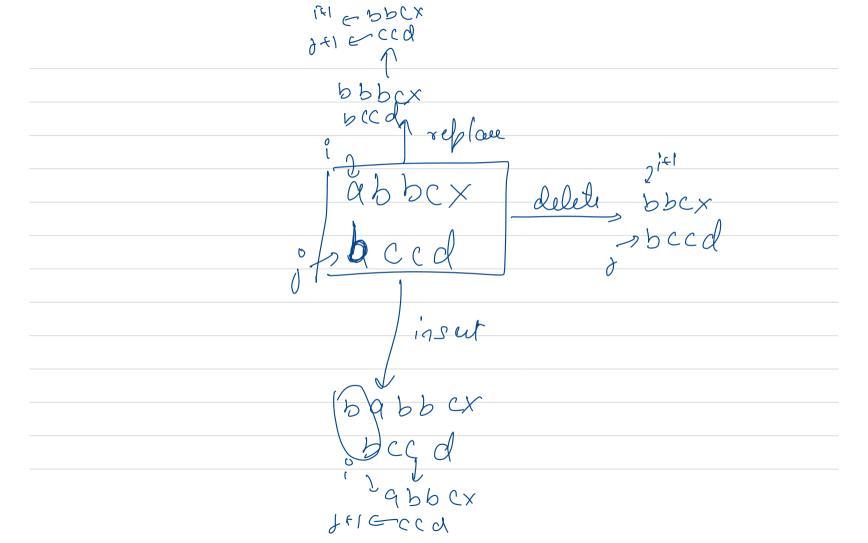


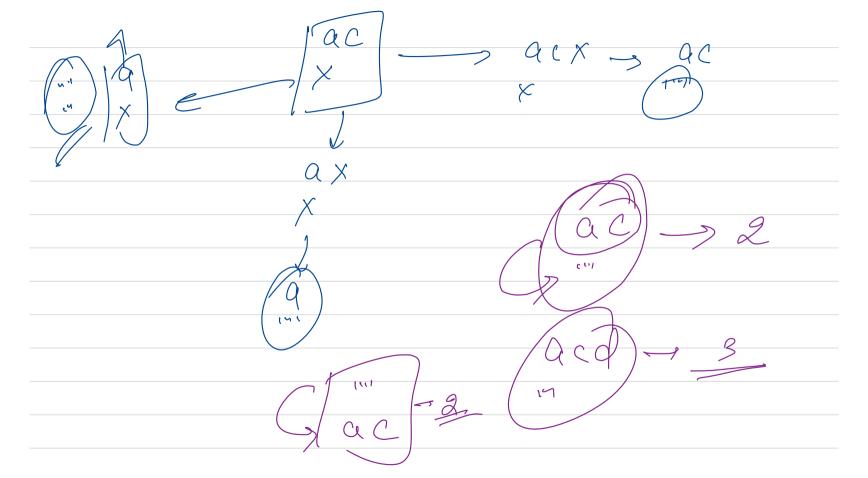
Substitul Removal



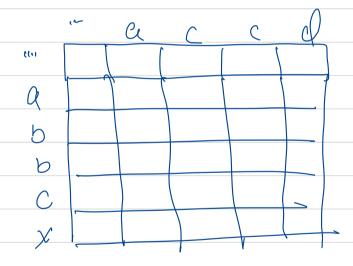


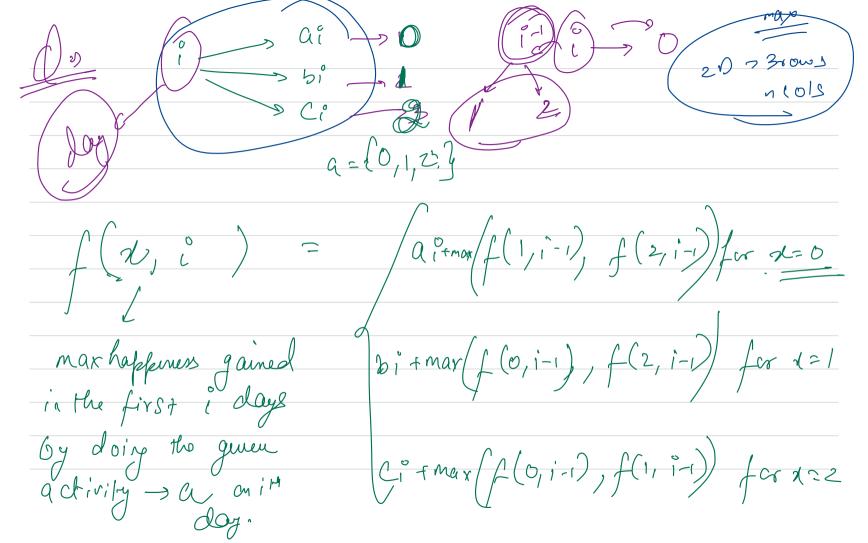






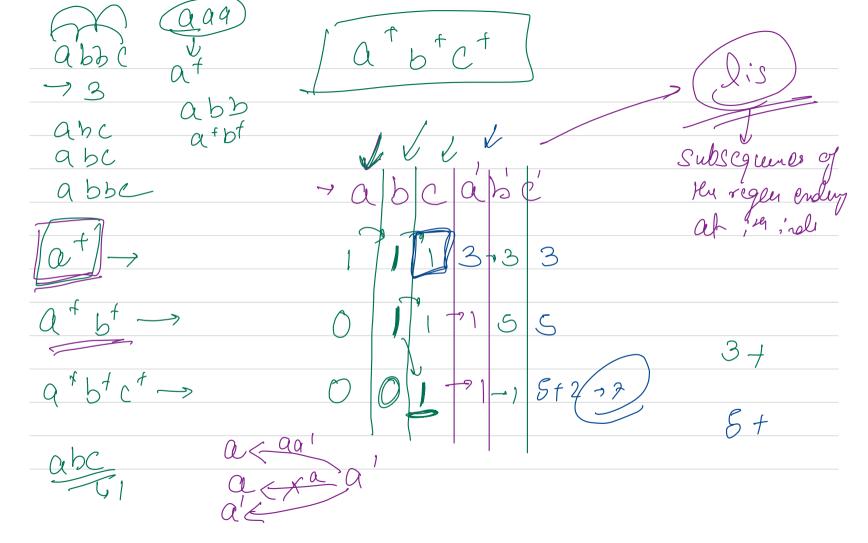
accd

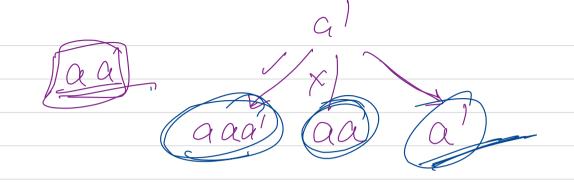




final aus - max (f(0, n-1), f(1, n-1), f(2, n-1))

Cleven a Stoing, -> Count theno. of Subsequence type followy this regen (+) -> one or more abc ablc anc abbc ab C aabc abc





1+2 acoul

a count + 2 \$ b count

Scount + 2 Ecount

$$f(x, i) = (1 + 2)^{4} f(a^{\dagger}, i-1) \quad x = a^{\dagger}$$

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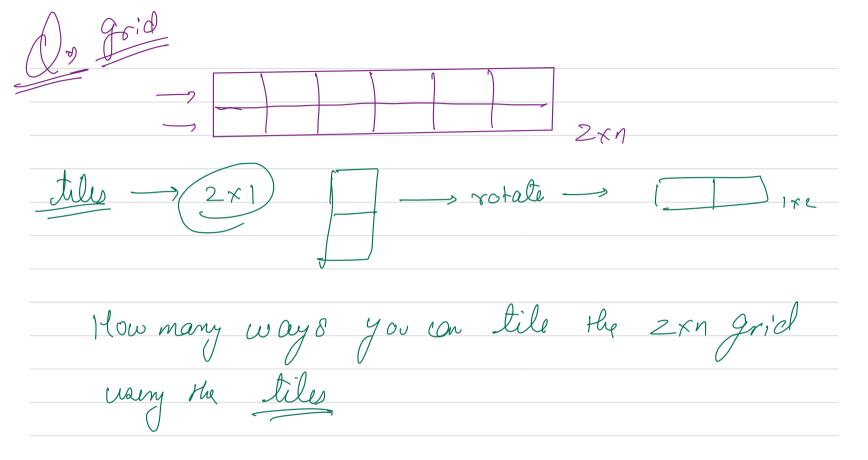
$$1 + 2)^{4} f(a^{\dagger}, i-1) \quad x = a^{\dagger}$$

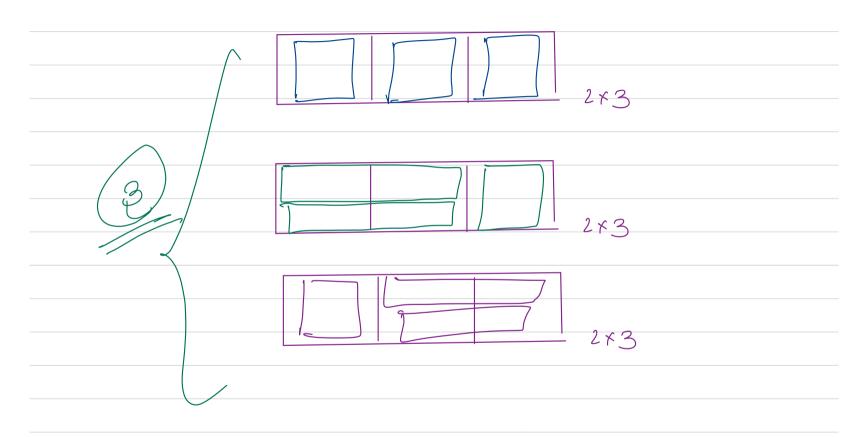
$$1 + 2)^{4} f(a^{\dagger}, i-1) \quad x = a^{\dagger}$$

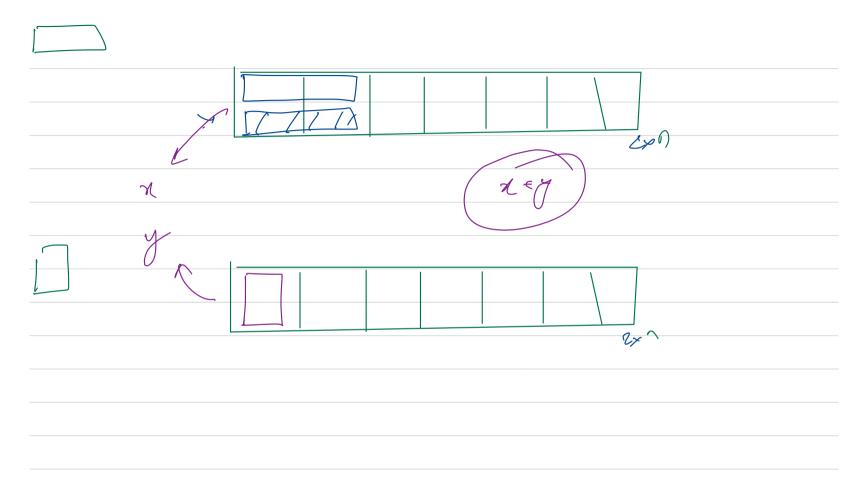
$$1 + 2$$

 $\mathcal{O}_{\mathcal{P}}(s,i) = \frac{1}{2} \mathcal{O}_{\mathcal{P}}(s,i-1)$ dp(0, i-1) + 2 dp(1, i-1) ===1 dp(1,1-1) + 2 = pp(2,1-1) ===2

am > ochen dp (2, 17-1)







+ (1 -2) f (n-1) first pas, un June 1 10 first & pos, w I return the chooce vertical Chose horizontal no. of ways ho tile 2rn f(1) -> luay (vertical) f(2) - 2 work(al) 242 2 horizontes

