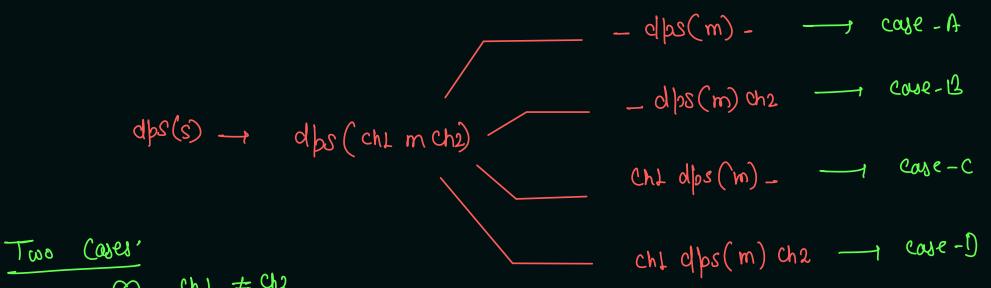
abc

```
Required
        set and unions! -
        S(SI \cup S2) = S(SI) + S(S2) - S(SI \cap S2)
  2
```

(3)
$$S(SIUS) - S(SIUS) = (SIUS) + S(SI) + S(SI) + S(SIUS) - S(SIUS) - S(SIUS) + S(SIU$$



81 U S2

U S3 =

+ 82 - SI NS2

-clbs(m)- cobe-A	case-B _ dps(m) ch2	case - c chides(m)-	cove -D
- ~~~~	- my d	a ~~~~	a min a
Q _	q	q q -	9 9 9
C	c - d×	9 - CX	q_c_d
c a -x	c a d ^x	q - c q -	a - c a d
- C	-cl-d	a dx	9 cl d
-c -a-x	- c - a d	9 0 - 9 -	$\alpha c = 0$
_ d c×	- cl c - d	a d cx	a d c - d
-dca-x	-d cadx	adca-x	adcad
Set-1 SI -1 marked s.s.	Set of S2 or monthed	Set-> <u>S</u> 3 - muled	Set 137 _
so we have to find.			froezed and also

(SI N 82

81 + 83 - SI NS3

SI U 23

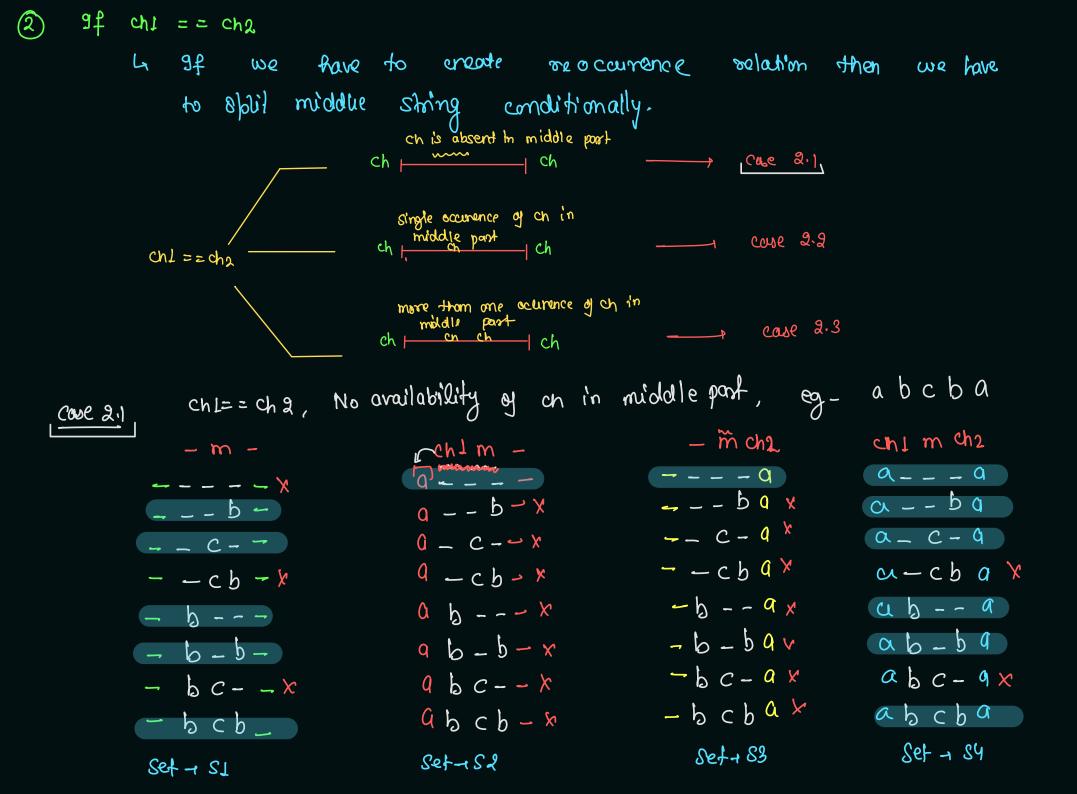
dup not

Ch L & che are

Chi d ps(m) chr

=
$$S1 + S2 - S1 \cap S2$$
 + $S1 + S3 - S1 \cap S3$ - $S1$
 $dps(m) - S1$ + $clps(ch1 m)$ - $ch1 dps(m) S1$
 $dps(m) ch2 S2$ + $clps(ch1 m)$ ch1 $dps(m) S3$

Reoccurence Reladion -



SIUS2 US3 US4 = 81 + 82 + 83 + 84 - 81 M S2 - 81 M S3 - 81 M S3 - 82 M S4 - 83 M S4 + 61 M S2 M S3 + 51 M S3 M S4 + 52 M S3 M S4 - 51 M S2 M S4 + 52 M S3 M S4 - 51 M S2 M S4

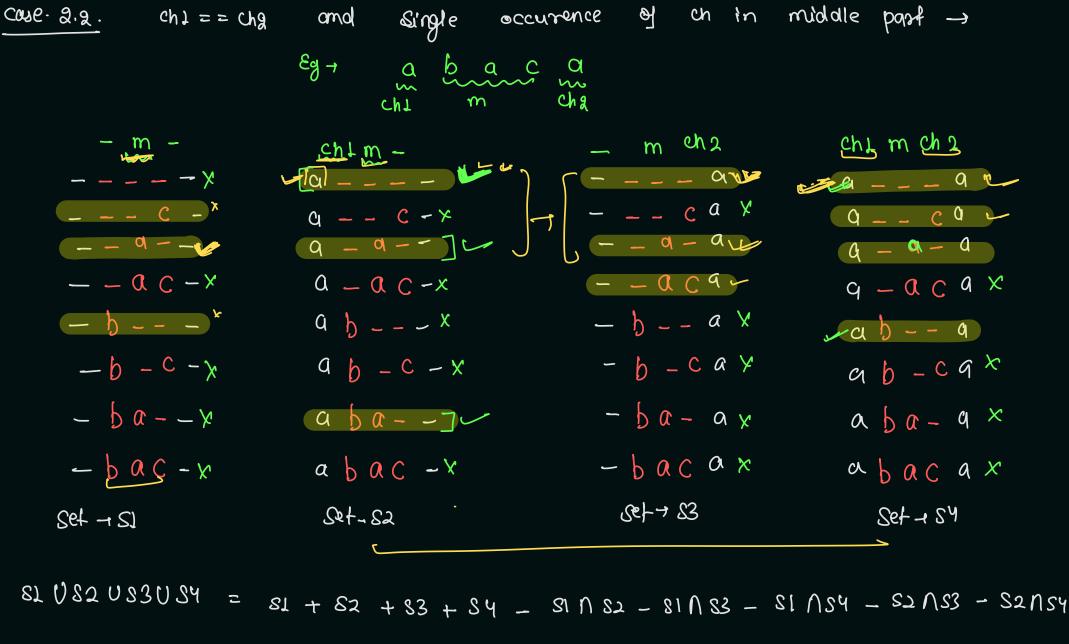
$$2082083084 = 81 + 1 + 84 + 84 + 1$$

$$= 81 + 1 + 81 + 1$$

$$= 2[SI] + 2$$

Relochon Hus SI & SY SY - SI + 1

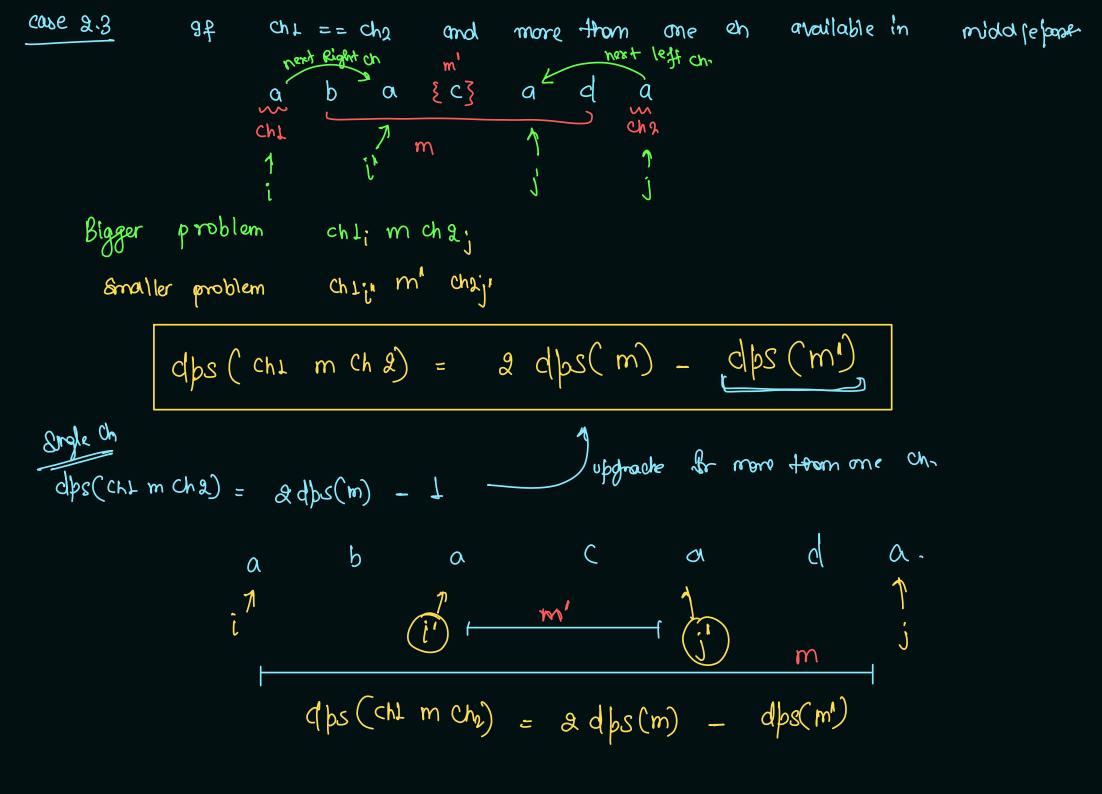
 $\frac{\text{Cove} \cdot 2.1}{\text{dps} (\text{ch1 m ch2}) \cdot \text{ll ch1} = \text{ch2} \quad \text{ln och available in middlessing.}}$ $= 2 \, \text{dps}(\text{m}) + 2$



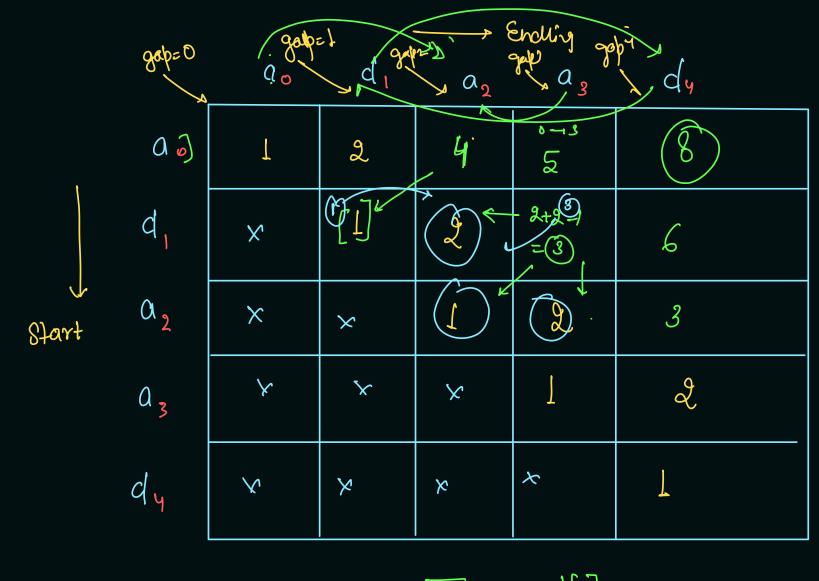
+ S2NS3 NS4 - SINS2 NS3 - SINS3 - S2NS3 - S2NS -83NS4 + SINS2NS3 + SINS2NS4 + SINS3 NS4 + S2NS3 NS4 - SINS2 NS3 N S4

```
observation-
               (1)
                 2 NS4 = 0
              1 + 13 = 45
              S2 = SI N S2 + S2 N S4
             (9) 83 = 81 N 83 + 83 N SY
             (8) 82 N 83 = 81 N 82 N 83 + 82 N 83 N 84.
81 US2 US3 US4 = 81 + 82 + 83 + 84 - 51 MS2 - 81 AS4 - 52 MS3 - 52 MS4
              -83AS4 + SINS2NS3 + SINS2NS4 + SINS3NS4
              + S2NS3NS4 - SINS2NS3NS4
SI US20830S4 = SI + SI + 1
       = 251+1 CWR. 2.2.
                      dbs(ch1 mch2), le ch1 = 2 ch2 l one ch in middle parch
```

dbs(Ch1 m ch2) = 2 d/as(m) +1



cases for all distinct pallindromic Subsey 3-String - ch1 m ch2. cn # cha. dps[ch1 m ch2] = dps[mch2] + dps[ch1 m] - dps(m) ch1 = Ch2 - No Reportition dps(Chimcha) = 2 dps(m) + 2 - Single Rebition dbs (ch1 m ch2) = 2 * dps (m) +1 More than one Repition. (1,2) - (2,3) dbs(ch1 m ch2) = 2dbs(m) - dbs(m)



9-18-8-10 b-18-8-10

d + & 7

C - 4

e + 9

Similarly Set - Next