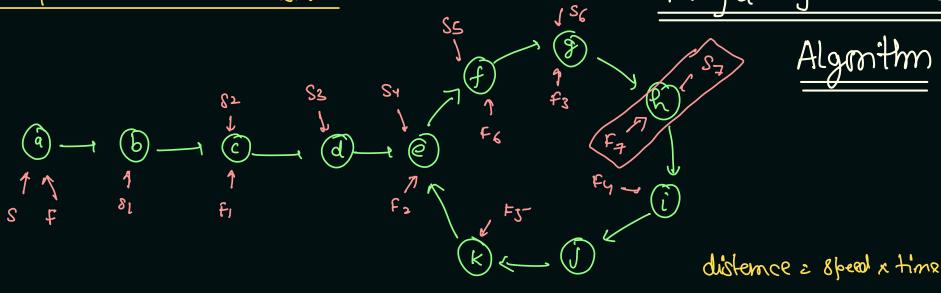


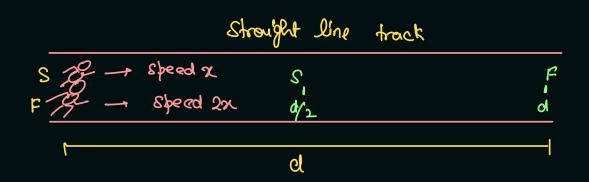
## Remove all duplicates from sorted Linked UST:

(C)-(a)-(f)-(g)-(i)-1 1111 ~ (b) - (c) - (e) - (e) - (f). - @-- @-- B-- C-- @ - C-- @-- C-dupticaties duph'cokduplicacy encour com= com. rext - i'nert = cumi.next.val = = curr,val otherwise i= i-next (i) erus return treatsinent

2,

## Floyd Cycle Detection





distance travel by 's' in it' time.

d = xxt = xt

distance travel by 'f' in t' hims

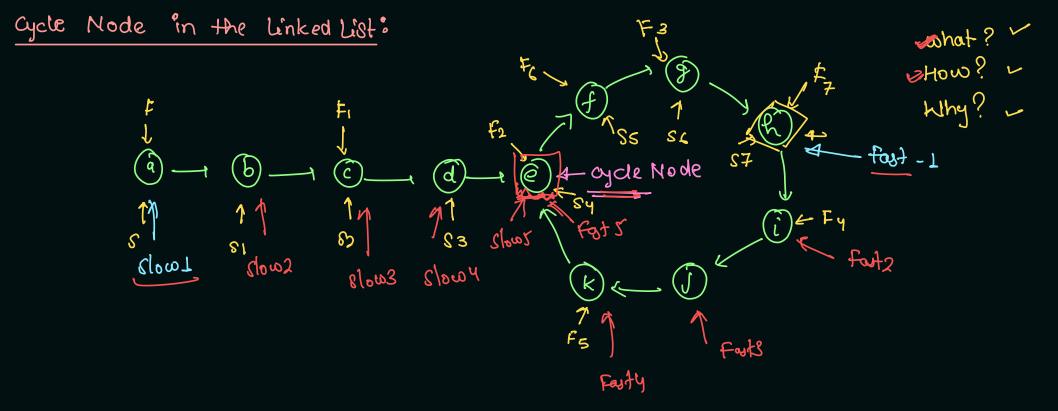
d = 20xt = 20xt

then certainly blow & fast encounter of a some pointer.

Step because fast have 2x speed & slow have in speed

Extension of a some pointer.

The second of the start was an a common point.



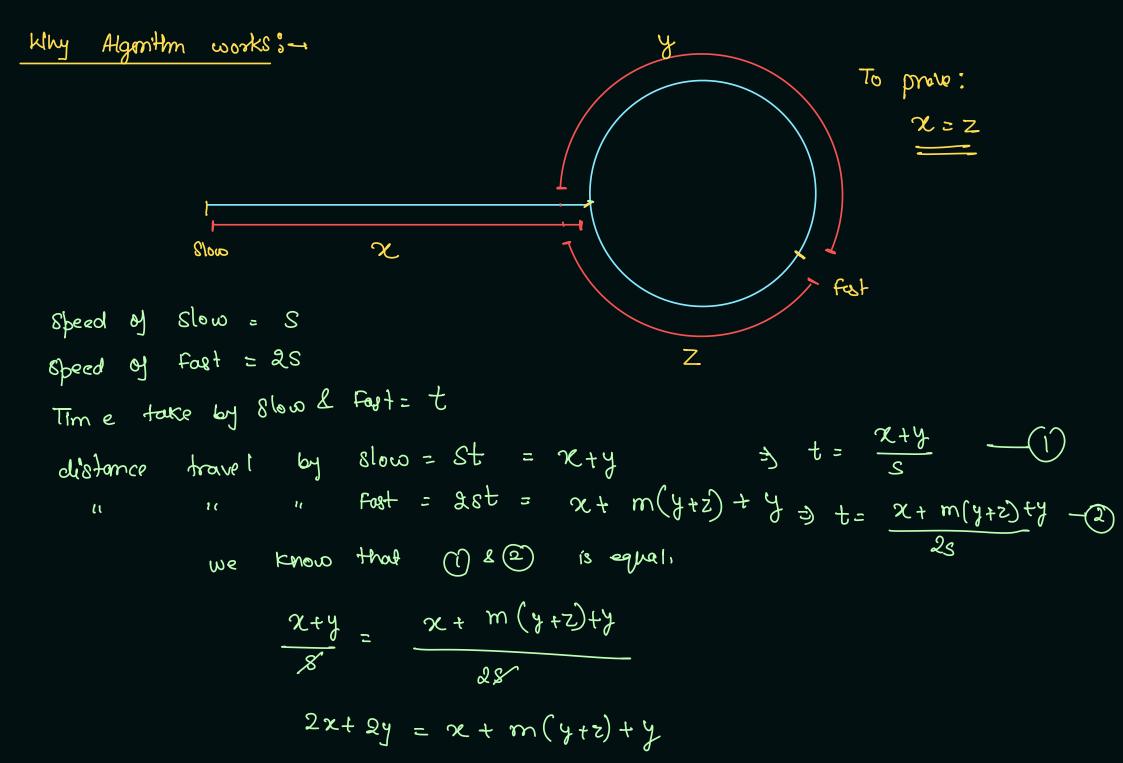
Whaf

Find it is cyclic or Not.

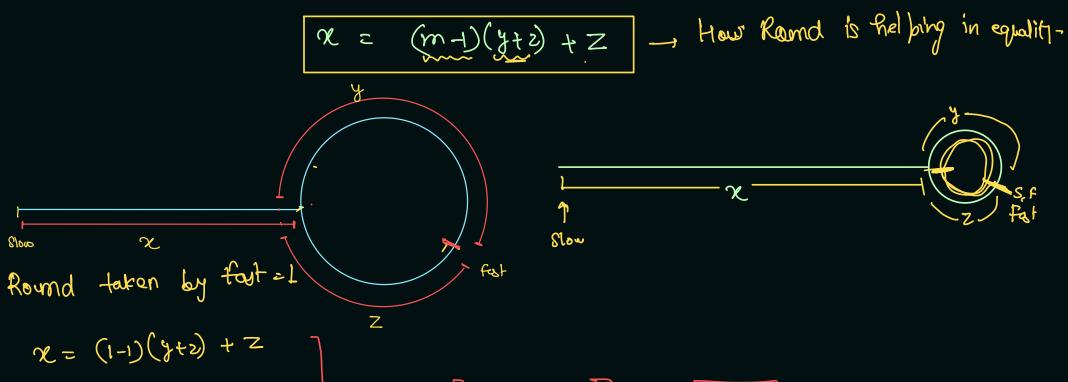
1027 Place fast at common metaling point & 81200 at head,

Move Slow & Fast of some & beed, (8)

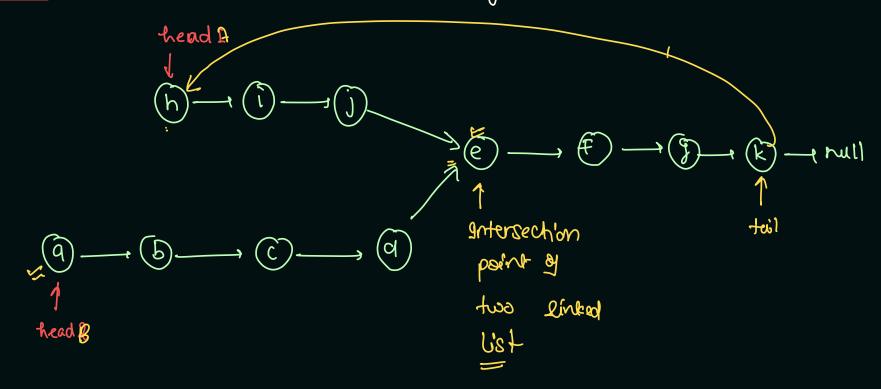
the points where slow e fast meet to stocking point of cycle,



$$x + y = m(y + z)$$
  
 $x = m(y + z) - y$ ,  $(y + z) = add$  & subtract in Rins,  
 $x = m(y + z) - (y + z) + (y + z) - y$   
 $x = (m-1)(y + z) + (y + z) - y$ 

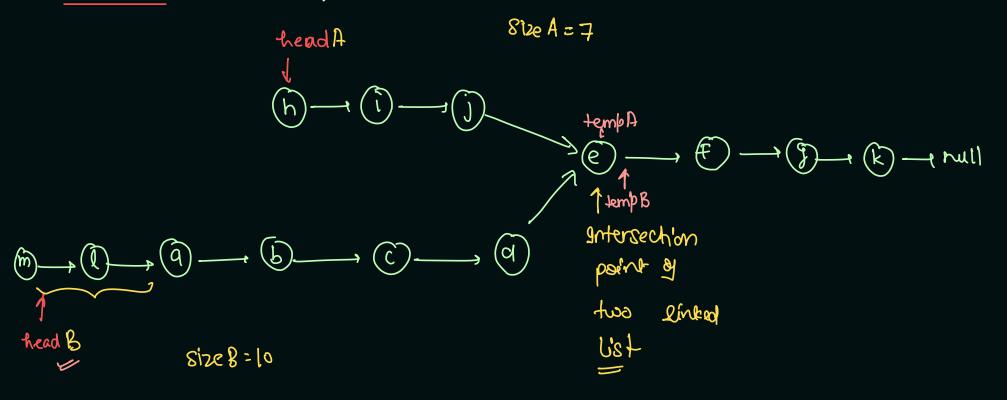


Method I - Using Floyd Cycle detection Algorithm



- 1) Move from head A and find toil
- 2) conned tail, next to head A
- 3) Rind stanting hode of cycle from head B.
- (4) If rode prount return that node otherwise null
- (5) Before returning result retainly that structure,

Method 2 - Using Difference Method:



- (1) Skrbte Extra Node Sither in head A or head B.
- @ More temps & temps simultaneously-
- 3 of encouler of some point, then thou point is my routh otherwise no insused on point.

1) - 2) - (3) - (4) - (5) - (7) - (nu)

Affers Roverse Alb rurms (F)—1 (8)—

Val 6 \_\_\_\_\_\_ (5)

Corn = Y 1

- (1) convert number into integer & solve.
- 2) Store number in array & solev.
- 8) Recursion -> space
  Equivalento
  space of ormey

1234567
789