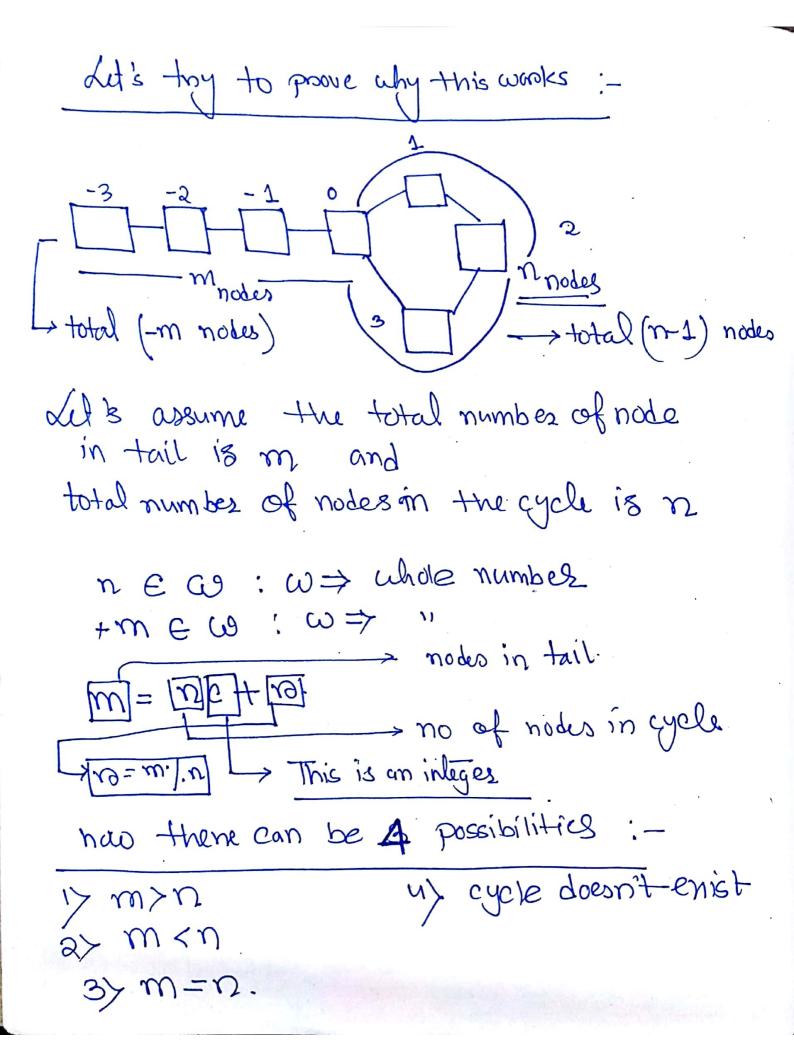
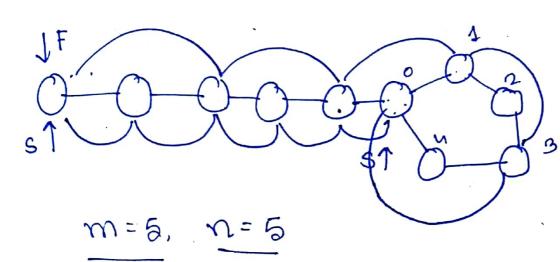


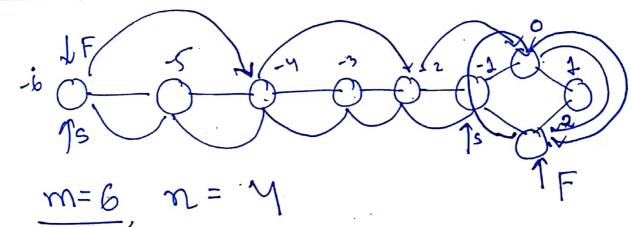
How Floyd's algo works/connectness discussion
Hene are using Fast slow points oro people called it Hane Torotoise algorithm. 80 the problem statement:
vu have to check abethre the cycle enists in a sinked sist on not IF IF IF
To
Evist doop the first & slow will meet and no node → nontended to the first & slow will be a first & slow
here slow cull be moving Losteps but fast all centainly move to a sups. fast = fast - nent - nent;
elas = elas - sulnti
at the begining they are pointing to the same which is he ad
of LL.



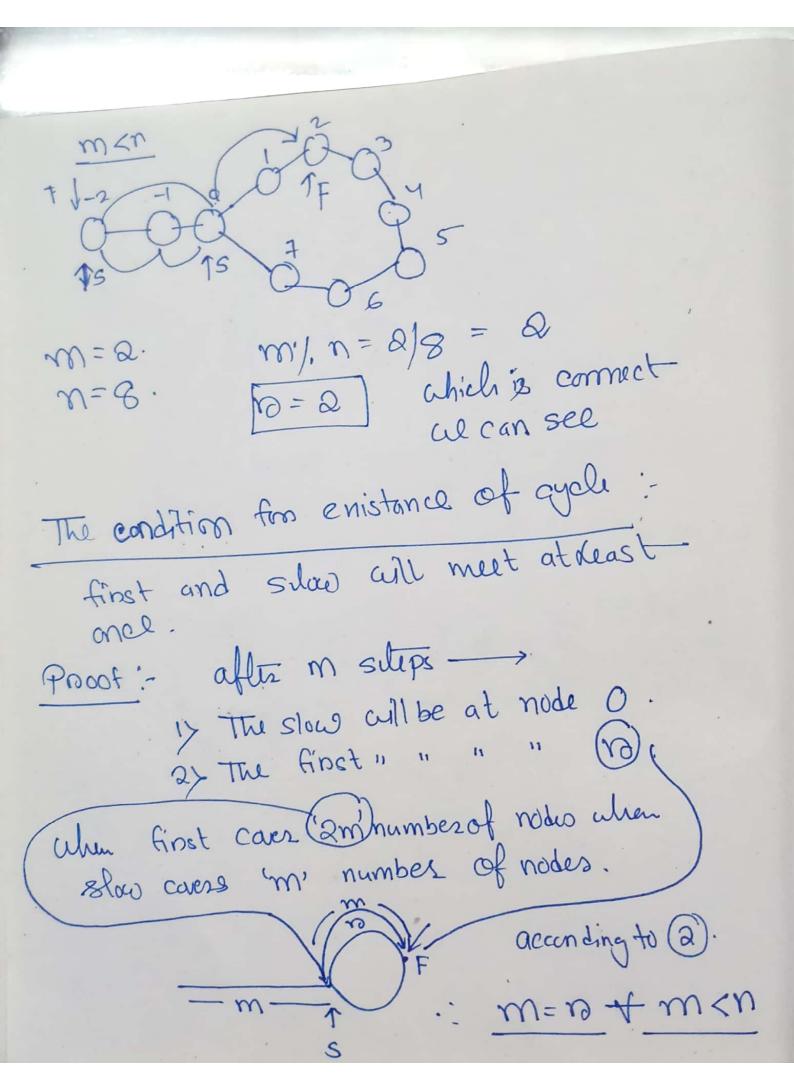




m/n:-



which is some as
the Fis pointing
now.



 $\overline{m > n}$ → after some nound finst call causa carple of round as hene M>12 m./. u = 20>7. 80 for this case first pointre already cour. 50 now 10 = M-N. some mounds M= 15 m = nc+10 M = M15 = 4x3 + 3 -> 70. Atti slas moves in-10 sleps Position of tustle | slow = n-ro.
" have | fast = [& (n-ro) + ro]. /. n =(3v-10),\ J $= \frac{\sqrt{-\omega}}{\sqrt{3\omega-\omega}} \Big|_{\frac{\pi}{2}}$ = Position of tustle. Pusition of hane

LHS = RHS.) Soul have a cycle.

T=20 C=6.

1t 1t TE setermo basque 1> moving the slow T notes. 2> check the suleps of first and move it seeing by axt and check the position now T'/.c = 10%. 6 = 4 = 70 3> Let's mare tantle from reference position to C-vo nodes = 2 nodes now pos of slow is and position now 11" fast " 4th " us wis more the first uso position 0 > 2

efter reaching of slow to the reference node and mains it to are position.

first & slow will paint the same.