Why T.F. Does a Tortoise & have meet ?? (the genius of module)

* Prouguisite_

- 1 De gyde rodu
- (3) In Di elips, too -> at yde node. O.

 tous -> K*11+ nth rodein cyklo
- (n n2-20 steps, tob -> (n2-26) the rode.

 have > 20+(n2-26) x2 x

 => (2n2-20) hode.

(i) Sum of the :
$$(n_1 + n_2 - n_3)$$

$$= (K \times n_2 + x) + (2 \times n_2 - n_3)$$

$$= (K - 2) \cdot n_2$$

.. n+n2-ru etgs will head to Othhode of well.

* Proof of how this works

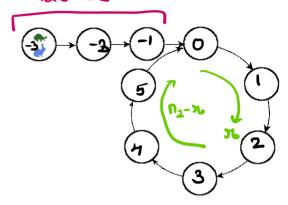
from the Oth rade we nove or steps to reach rade is

(0+x) 1. Tr2 = i

from not rade, the have moved 2+20 staps to reach nade i.

$$\left(\left(\bigcap_{2} \times k + \chi_{0} \right) + 2 \cdot \chi_{0} \right) / \bigcap_{2} = \dot{\mathbf{J}}$$

tailrodu



from (1)

$$\frac{1}{2} \left(\frac{\pi ! \cdot \rho_{1} + 2^{2} i}{! \cdot \rho_{2}} \cdot \frac{1}{! \cdot \rho_{1}} \right) = i$$

$$\frac{1}{2} \left(\frac{\pi ! \cdot \rho_{1} + 2^{2} i}{! \cdot \rho_{2}} \cdot \frac{1}{! \cdot \rho_{1}} \right) = 0$$

$$= \frac{1}{2} i = \frac{1}{2} - \pi i$$

But dires $n_1+n_2-x_0=0$, Welknow n_1 steps from node i in cyclic nodes will lead to the 0^m node.