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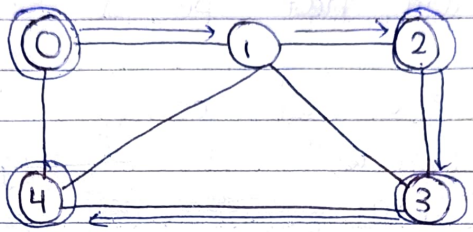
* **Hamiltonian Path:**



⇒ In HP, we have to traverse all the nodes exactly ~~ones~~ once.

* **Hamiltonian Cycle:**

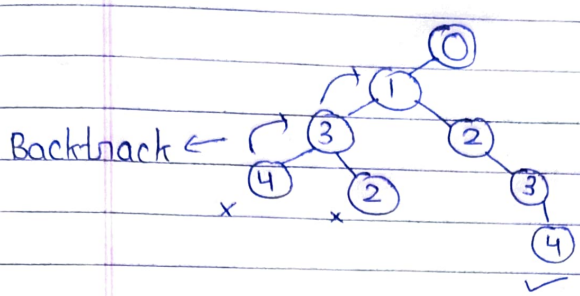
⇒ A HP in which starting & ending node is same.

⇒ To find HP, we only have a brute force approach.

⇒ That means, we have to try every combination and find HP.

⇒ If we get any wrong path, we will just go back and try another path.

⇒ So, that means, we will backtrack.



⇒ For Hamiltonian Cycle, we have to remember the starting node and then after getting the HP, we will check that we can get to the starting node.

⇒ Here, the T.C. is exponential — N!

⇒ This problem is a Anti-Hard Problem.

⇒ We can optimize by using Dynamic Programming.