Day - 205 11 18 3 3 10 10 10 Graph-9 Prenequisite Tasks! 0 7 0 7 Pro = { {1,0}} {2,13, {3,23} N= 4. P=3
So; [1,03 in the pre means that Task 1 will do after completing Task O. P tells the no. of Prenegrusiff. N tolls the ho. of tasks. اح of the property of the state of we have to find that we can do all the tasks. N L Brist Some can natice that -It something like topulagical sont. So, if the graph have eyele that means TS can't find. So, we can apply any cycle detection technique here. we can use kahn's algo. First, we calculate the indegree. Then, push that element that have zero in degree in the queue.

Page . Alien Dictionary: dict = b a a a b c d abca cab cad 9 Here, we find the order of dictionary We can see that, if we compareb is coming before a. In the same way, $d \rightarrow a$ $a \rightarrow c$ $b \rightarrow d$ So, by using Topological Sort we can find the order easily. Our tasks will be -Croate adjaconcy List.
Apply kahn's Alga. Lalcu

Page ____ Panallel coursei 3 months 7 rolation:[[1,3],[2,3] 3) in Time: [3.275] 5 months 2 months We have to find min, time in which we can complete all the courses. But there is a lechdition that never have to complete the provious course like for (1.3) - we have to first complete course I then we can start course 3. of months that the way to Also we can do as many course as we want at a time. A THE STATE OF THE STATE OF THE STATE OF So, we will start 18 2 thon we do 38 2 3 2 1163 30 110 the cost of the party of the party Some can see that this question is like Topological Sont we will take two vector is one for indegner & one for calculations max. when we are decreasing indegrees we will calculate enite the max time for that course