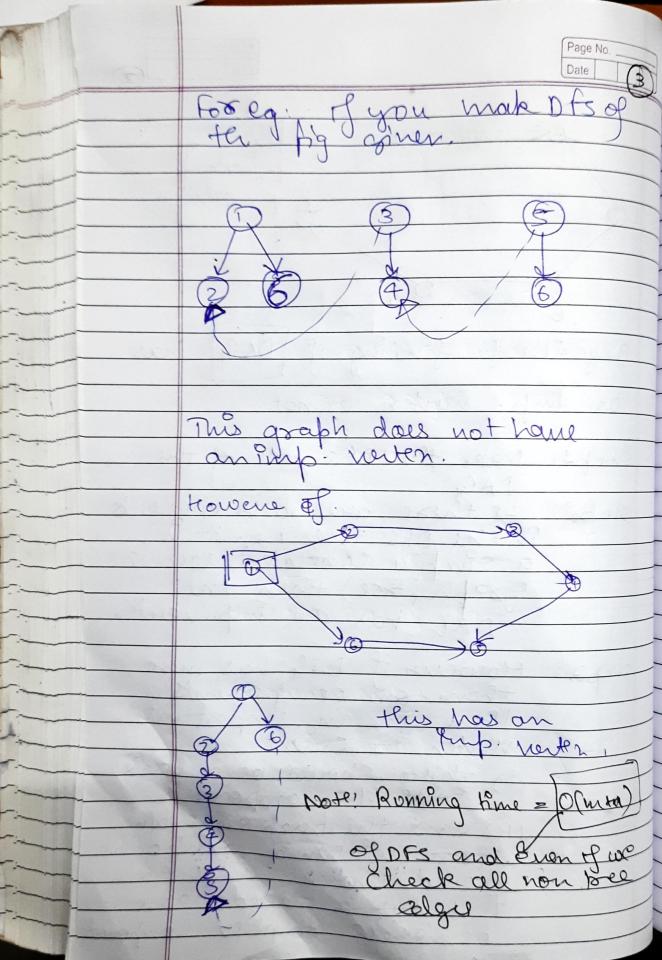
Somesh Pratap Strigh Page No. 19110206 23/11/21 Date DSAI Theory Endsem Ruding Pint verton & (ON) enny nerten v EV & Do BES (U) ontains all other werker) { graph has Purpostant schund! graph has no Pomportant verten

Page No. Algorith for finding of DAG has an Pup. werden or not. Step 1. Make the DFS tope of the Step of these are no components
in the DFC toll i.e. It is
a simply connected acyclic
graph (toll) then the DAG has an Pmp. weater However of DAG has more Step3 than one components then for an important vertex to emist (1) three Should be a back (11) and the back edge b/w Com within a component Should end at a never that the a Photeed has a backede to prey componed



hashupunter (mot) has Imprenten () DO DFS (v) Components)
There exist an imprenter else (If there are no back edge); there doe not exist 3 Prop vester of there are no back edges "
with in components & there does not enst pup wester est book edges by a curry componet and booked with component and at widen which has backedge to perevious there emit into with

Pupostant pass head by super Rapane: (portey Date Valu Put (head, sut n) g

czeali a new node w with value n;

temp? head;

tempPrev? head; while (temp) value < 2) § temp = temp -nent; while (tempperer ment-malle < 2) & tempPreuz tempPreuvsnent templacer-snent z v. > Of (head==NULL) { head 2 9 vonent = NULL of (temp -> nent 22 NULL) & temp -> nent = v; es nent = NULL'

1 -2 0 2 3 4 5 6 7 8 9 10 11 12 1 -2 0 2 3 4 5 6 7 9 12 18 14 of Pelen identical enter (arr, n) } Pulezny! Put m! totale (tone) & T(s)e) seturn false florsetur of (a(m) >m) essif (am) < m] eseif (apr) = m) O (logn) -> we can make a Binony

mandepth (root) & 1 (300t > lyt of (soot == NULL) {
seturn o; of (noot) lyt = 2 NULL [OR] 3 (JUN = tupix < toos seturno! ans z mandepth (root > lyt); conspe your John split school and schen man gang and +1' algorith goes over energy unter