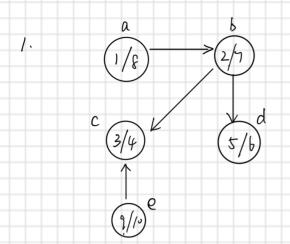
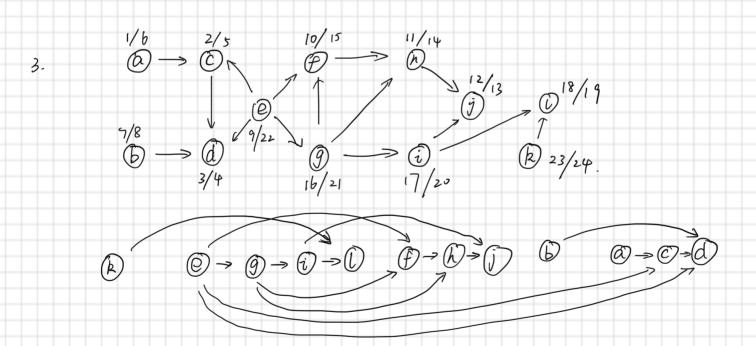
DSAA 2ab 14. 12310401 +3/19



 $a.\pi = NIL$ $b.\pi = a$ $c.\pi = a$ $d.\pi = b$ $e.\pi = NIL$

2. ① from 2: one back edge from 4: two back edge



4. Count the edges number when exploration.

Call DFS until find |v|-1 edges or had explored all nodes.

If that time there's no white nodes, then it has no cycles. Or stop at found the |V| edges, it has cycles.