Graphs 3.pdf
Friday, October 11, 2019 11:13 AM

Q. Given N people, find out the order in which they are met from the

① (Topological)

②

③ Unlimited graph → X

④ ✓ $m = \frac{n}{2}$ pairs!

DFS!
Could make topo sort

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① Topological Sorting

→ Given a directed graph with no cycles, find a linear ordering of its vertices such that for every directed edge (u, v), vertex u comes before v in the ordering.

A, B, C

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②

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③ Using topo sorting

1) Subgraph added

1 2 3 4 5

2) Edge added

1 2 3 4 5

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④ Find the min # of edges to make a DAG strongly connected

$\Rightarrow$ $\frac{n}{2}$ edges → $\frac{n}{2}$ edges