



A cycle in a directed graph is a path with the same start and end. Does a graph have a cyck? O(m(n+m))a 5 DAG Directed Acyclic Graph

In a DAG JVEV s.t. v has no in-edges Topo-Sort: O(n+m) d,g,a,b,ć,e,f S-m Omy O WA Bung E a, d, g, b . Not on the test 7

Kruskal's sort edges in increasing order of weight add to MST if the src +dst are not in the same CC Union-Find Disjoint Set Tracks disjoint subsets of V operations: -find (v): which component v belongs to - union (s,t): combines s,t -> sut

