## **EDITORIAL**

## Robots in a DAG

## **Problem Link**

Prerequisite - Graph Theory, DFS, Network Flow

We can create a new graph where each node (i,j) represents that we are on node i at time j. Now when we are creating edges j, we should create edges from a nodes j to j to j to j to j edge exists in our original graph. So, our initial problem is transformed into finding the edge disjoints paths in our new graph which is a standard problem. Now we can binary search on minimized maximum length by creating a graph in which the nodes are stated as above and j is the length we want to check. To check for a particular length, we'll need to check if the total disjoint paths in our new graph j k and change the limits of binary search accordingly.