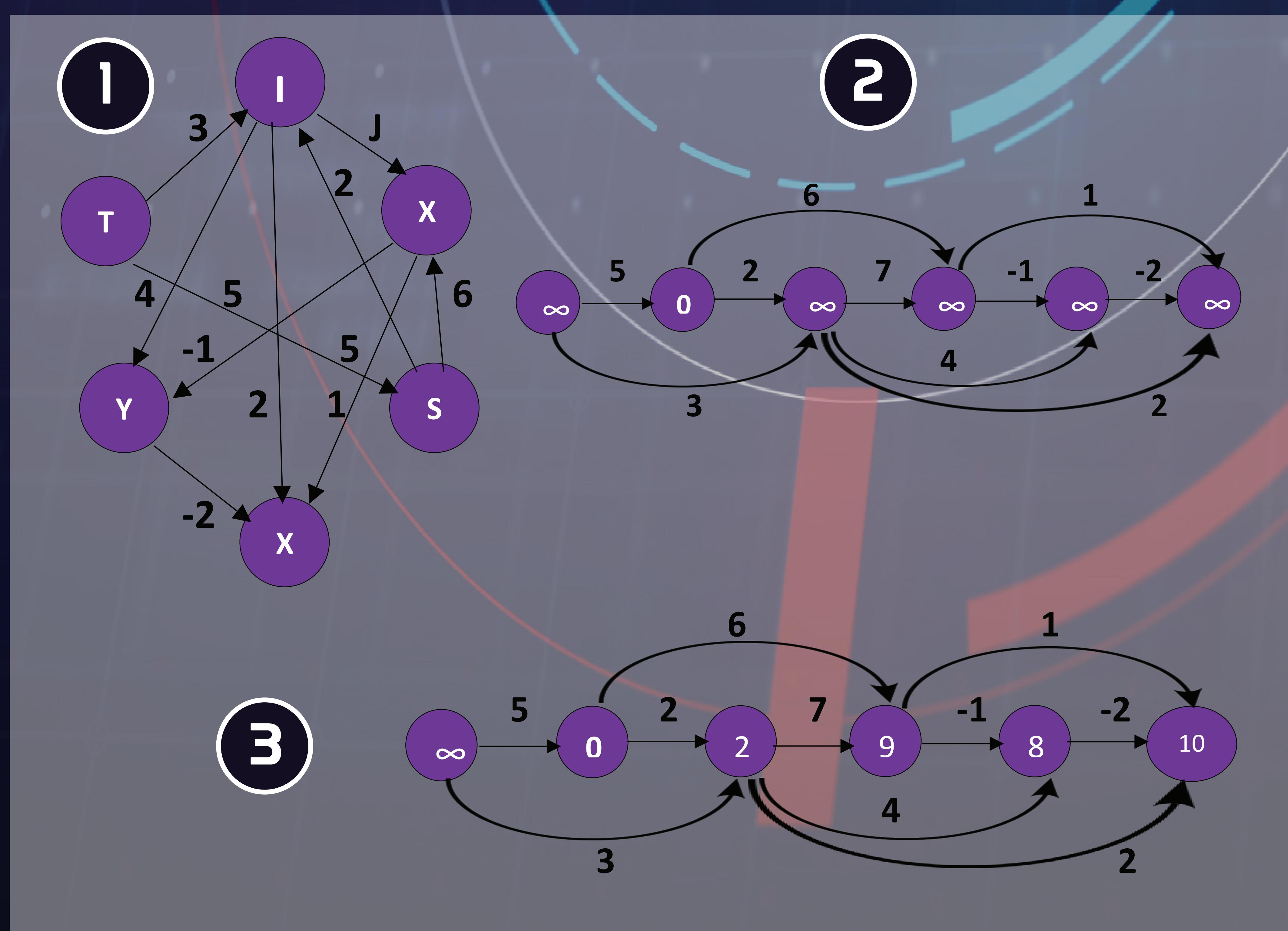


LONGEST PATH PROBLEM

In graph theory and theoretical computer science, the longest path problem is the problem of finding a simple path of maximum length in a given graph.

ALGORITHM TO FIND LONGEST PATH:

- STEP 1: Input vertices of the graph and their edges weight
- STEP 2: Initialize the distance of all vertices (inif) excluding the source distance is zero.
- STEP 3: Find a topological order of all vertices.
- STEP 4: Repeat for every vertex of Graph in topological order.
- STEP 5: Repeat for every adjacent vertex s of t
- STEP 6: if distance of vertex t is less than from distance of vertex 's' + weight from 's' to 't' then Update the distance of vertex 't' with the distance of vertex 's' + weight from vertex 's' to 't'.



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