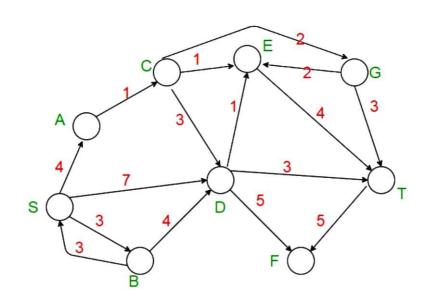
Sec-L, Online Quiz

Consider the given graph.



Consider the directed graph shown 1 point in the figure. There are multiple shortest paths between vertices S and T. Which one will be reported by Dijstras shortest path algorithm? Assume that, in any iteration, the shortest path to a vertex v is updated only when a strictly

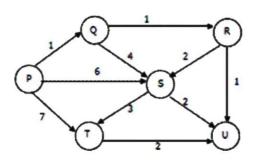
shorter path to v is discovered.

- O SDT
- O SBDT
- O SACDT
- SACET



Sec-L, Online Quiz

Suppose we run Dijkstra's single source shortest-path algorithm on the following edge weighted directed graph with vertex P as the source.



In what order do the nodes get 1 point included into the set of vertices for which the shortest path distances are finalized?

- P, Q, R, S, T, U
- P, Q, R, U, S, T
- P, Q, R, U, T, S
- P, Q, T, R, U, S

A networking company uses a 1 point compression technique to encode the message before transmitting