Quiz 7

Finish test

Reacall

- Dijkstra's Algorithm (Drag and Drop) 0
- Parallel BFS in Pregel (Drag and Drop) 0
- Page Rank 0
- Betweenness centrality 0
- Dijkstra's algorithm limitations 0
- Graph Partition 0
- Graph Partition steps 0

Further Reading

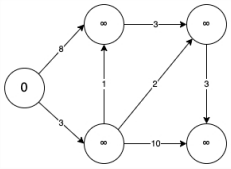
- Review on Community Detection Algorithms in Social Networks 0
- The PageRank Citation Ranking: Bringing Order to the Web 0

Dijkstra's Algorithm (Drag and Drop)

15 points Not answered

You're given a weighted graph.

Please perform Dijkstra's algorithm on it (see the examples from the lecture)



In order to complete the task you have to perform the algorithm on paper first.

Instructions:

1. Drag and Drop: On the right side, you'll see 5 diagrams inside blue boxes, each representing an iteration of Dijkstra's algorithm.
2. Match the Answers: On the left side, there are all the possible answers. These answers include the node values (shortest path distances from the source node).

What You Need to Do:

- For each diagram, you need to choose **one** yellow box with **node values**.

- Each Blue Box should have a node yellow box signed.

- You can use each yellow box with **node values** more than once. For example, if there is no change of values on the next iteration.

- Drag and drop the chosen node value into the corresponding box for each diagram.

Hint:

If your answer is too far down and you're worried about dragging it all the way to the graph, don't sweat it! You can simply **click** on the answer to select it, then **click** on the graph box where you want to place it.

Important Note:

You can't say you couldn't place the answers in the block because we've got you covered with the click option too!

Node Values:
a -> 0
b-> 8
c-> 3
d-> ∞
e-> ∞

Node Values:
a -> 0
b->4
c->3
d->5
e->13

Node Values:
a -> 0
b->4
c->3
d->5
e->8

Node Values:
a -> 0
b ->4
c->3
d->5
e-> ∞

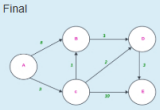
This is the first Iteration

This is the 2nd Iteration

This is the 3rd Iteration

This is the 4th Iteration

Final



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