Dijkstra's algorithm → Reconstructing the algorithm

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Easy 1 minute

Given below is Dijkstra's algorithm split by 5 parts. Sort them in the order that reconstructs the initial algorithm.

Report a typo

Put the items in the correct order

- Set the current distance to the source to 0, for all other nodes assign it to ∞. Mark all nodes as unprocessed.
- Find an unprocessed node u with the smallest $dist(u)$.
- Consider all unprocessed neighbours of u and update the current distance to each of them to a smaller value.
- When all the neighbours of u are considered, mark u as processed.
- If there are no unprocessed node, the algorithm is finished. Otherwise, go back to the 2nd step.

✓ Correct.

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