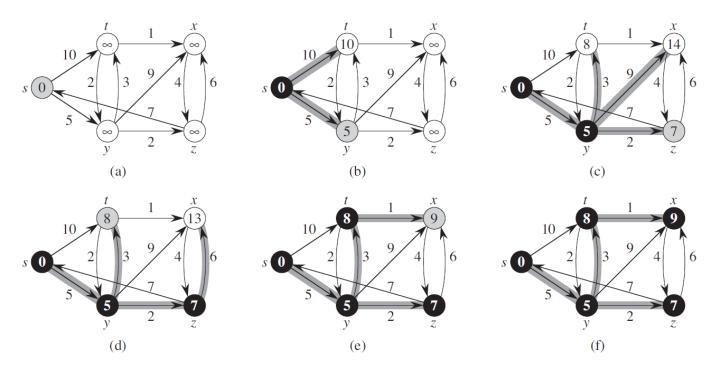
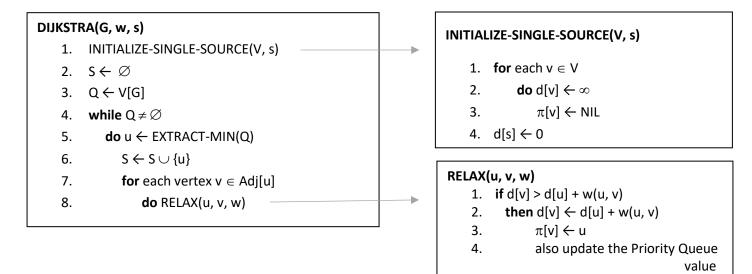
## **Offline 4 on Shortest Path Problems**

In this assignment, you will implement the Dijkstra's algorithm to find out the shortest path from a source node to any of the other nodes.

How Dijkstra's Algorithm works:



Dijkstra's Algorithm:



You must take input the graph from a .txt file and you must build an adjacency list (i.e. array of vectors). For minimum priority queue, you must use the priority queue C++ stl library.

In the output, you will print all the shortest paths from the source node to any other nodes.

## Sample Input and Output:

Sample Input	Sample Output
5 10	Shortest path from 1 to 2:>1>3>2
1 2 10	Shortest path from 1 to 3:>1>3
1 3 5	Shortest path from 1 to 4 :>1>3>2>4
3 2 3	Shortest path from 1 to 5 :>1>3>5
232	
3 5 2	
5 4 6	
454	
5 1 7	
3 4 9	
2 4 1	

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