**Pseudocode:**

Def shortest\_path\_nodes(S,D):

Initialize(S, D);

Priroty\_Queue minQ = {all vertices in the graph};

While (minQ != Null):

Vertex u = GetMin(minQ);

For (every v belongs to minQ such that (u,v) belongs to entire set)

Relax(u,v)

End For

End While