

If the graph given was in the  $G(V, E)$  format, it would be like the maze format. With this we can see that the one of the vertices would be walking along the edge to each vertex. This ensures that the entire graph will be scanned in an efficient manner. And doing this will allow the vertex to see when the walk is done. But since the vertex does not know the true shape of the graph it cannot plan which route to go ahead of time. To help the vertex out there are markers placed to help the vertex not back track.