1. The nodes in the graph.
2. Whether or not the nodes can reach each other in the graph. It should be reflexive, symmetric, and transitive.
3. At the start, with n many nodes in a graph there should be n many equivalence classes, with each node being in its own equivalence class.
4. It would choose two nodes at random and use find to check if there is a path from the nodes' parents or the nodes themselves to each other. If not, it would relate them somehow.
5. It would check if all the nodes n the graph are all in the same equivalence class.