Try it Yourselves!

Type	Definition	When is (u, v) that edge type?
Tree	Edges forming the DFS tree (or forest).	v was not seen before we processed (u, v).
Forward	From ancestor to descendant in tree.	u and v have been seen, and `u.start < v.start < v.end < u.end`
Back	From descendant to ancestor in tree.	u and v have been seen, and `v.start < u.start < u.end < v.end`
Cross	Edges going between vertices without an ancestor relationship.	u and v have not been seen, and `v.start < v.end < u.start < u.end`

```
DFSWrapper(G)
    counter = 0
    For each vertex u of G
        If u is not "seen"
            DFS(u)
        End If
    End For

DFS(u)
    Mark u as "seen"
    u.start = counter++
    For each edge (u,v) //leaving u
        If v is not "seen"
            DFS(v)
        End If
    End For
    u.end = counter++
```