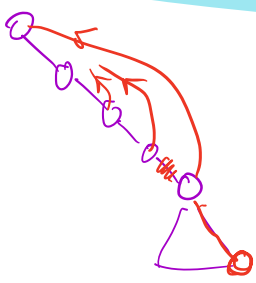
```
MakeSet(x)
    p[x] = x
    rank[x] = 0
```

```
Union(x, y)
    Link(FindSet(x), FindSet(x, y))
```

```
Link(x, y)
    if rank[x] > rank[y]
        then p[y] = x
    else
        p[x] = y
        if rank[x] = rank[y]
            then rank[y] = rank[y] + 1
```

```
FindSet(x)
    if x ≠ p[x]
        then p[x] = FindSet(p[x])
    return p[x]
```



Does FindSet change anyones rank?

Does FindSet change the number of nodes in any element's subtree? Yes

... in root's subtree? No