```
MAKE-SET(x)
1 \quad x.p = x
2 \quad x.rank = 0
UNION(x, y)
1 LINK(FIND-SET(x), FIND-SET(y))
Link(x, y)
1 if x.rank > y.rank
2
      y.p = x
3 else x.p = y
       if x.rank == y.rank
4
           v.rank = v.rank + 1
FIND-SET(x)
1 if x \neq x.p
                                // not the root?
      x.p = \text{FIND-Set}(x.p) // the root becomes the parent
3 return x.p
                                // return the root
```