

MAKE-SET(x)

$p[x] \leftarrow x$

$rank[x] \leftarrow 0$

UNION(x, y)

 LINK(FIND-SET(x), FIND-SET(y))

LINK(x, y)

if $rank[x] > rank[y]$

$p[y] \leftarrow x$

else

$p[x] \leftarrow y$

 if $rank[x] = rank[y]$

$rank[y] = rank[y] + 1$

FIND-SET(x)

 if $x \neq p[x]$

$p[x] \leftarrow$ FIND-SET($p[x]$)

 return $p[x]$