```
MST-REDUCE(G, T)
    for each vertex v \in G.V
2
         v.mark = FALSE
         MAKE-SET(v)
3
    for each vertex u \in G.V
4
         if u.mark == FALSE
5
6
             choose v \in G.Adj[u] such that (u, v).c is minimized
             UNION(u, v)
8
             T = T \cup \{(u, v).orig\}
             u.mark = TRUE
9
10
             v.mark = TRUE
    G'.V = \{\text{FIND-SET}(v) : v \in G.V\}
11
    G'.E = \emptyset
12
    for each edge (x, y) \in G.E
13
         u = \text{FIND-SET}(x)
14
         v = \text{FIND-SET}(y)
15
         if u \neq v
16
17
             if (u, v) \notin G'.E
                  G'.E = G'.E \cup \{(u,v)\}
18
                  (u,v).orig'=(x,y).orig
19
                  (u,v).c'=(x,y).c
20
             elseif (x, y).c < (u, v).c'
21
                  (u, v).orig' = (x, y).orig
22
                  (u, v).c' = (x, v).c
23
    construct adjacency lists G'. Adj for G'
24
    return G' and T
25
```