

MST-KRUSKAL(G, w)

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1   $A = \emptyset$ 
2  for each vertex  $v \in G.V$ 
3      MAKE-SET( $v$ )
4  create a single list of the edges in  $G.E$ 
5  sort the list of edges into monotonically increasing order by weight  $w$ 
6  for each edge  $(u, v)$  taken from the sorted list in order
7      if FIND-SET( $u$ )  $\neq$  FIND-SET( $v$ )
8           $A = A \cup \{(u, v)\}$ 
9          UNION( $u, v$ )
10 return  $A$ 
```