Kruskal's Algorithm

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MST-KRUSKAL(G, w)

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)
```