GraphSort@[*a*, *b*] returns True if the lists *a* and *b*, containing a pair of vertices and an edge name, are in sorted order and False otherwise.

```
GraphSort[a_List, b_List] := GraphSort[a, b] =
  If[a〚1〛 === b〚1〛,
   If[a〚2〛 === b〚2〛,
    Order[a〚3〛, b〚3〛] ≥ 0,
    SortedQ@{a〚2〛, b〚2〛}],
   SortedQ@{a〚1〛, b〚1〛}];
```