```
EdgeSequence@k MD := EdgeSequence@k =
Block [{s, w = List@@@List@@ToPD@k},
  s = (w //. (Max@# \rightarrow Min@# & /@w[ ;; , {3, 5}]))^{T}[
      2 :: 411<sup>T</sup>:
  Complement@@@ (Table[{\sharp \bigcup i[;;2] \mapsto \sharp \bigcup i,
                 #||ji||2;;|| ↔ #||ji} &
              /@ Subsets[Complement[Union@@s, i]],
            {i,s}]
           // Flatten
          // Graph
        // FindPath[#,
            Sort[WeaklyConnectedComponents[
                  #, {Union@@s}][1]][1]],
            Union@@s][1] &
       // \{ \#, \{ \{ \} \} \cup \# [ ; ; -2] \}^{\mathsf{T}} \& ) ];
```