

```
EdgeSequence@k_MDT := EdgeSequence@k =
```

```
Block[{s, w = List@@@List@@ToPD@k},
```

```
  s = (w //. (Max@# → Min@# & /@w[[;;, {3, 5}]]))T[[  
    2 ;; 4]]T;
```

```
Complement@@@ (Table[{# ∪ i[[;; 2]] ↔ # ∪ i,  
  # ∪ i[[2 ;;]] ↔ # ∪ i} &
```

```
  /@Subsets[Complement[Union@@s, i]],
```

```
  {i, s}]
```

```
  // Flatten
```

```
  // Graph
```

```
  // FindPath[#,
```

```
    Sort[WeaklyConnectedComponents[
```

```
      #, {Union@@s}][[1]][[1]],
```

```
      Union@@s][[1]] &
```

```
    // {#, {{}} ∪ #[[;; -2]]T &)];
```