

```
P [] tc 0, [a, b, c, d] W [a, b, c, d]
C [a] partion: [[a], [b, c], [d], [g, h], [e, f]] cmp: 0
P [a] tc 1, [b, c] W [b, c]
C [a, b] partion: [[a], [b], [c], [d], [h], [g], [f], [e]] cmp: -1
P [a, b] LEAF
B [a, b] to: PARENT
      MCR: [a, b, c, d, e, f, g, h] old W: [c] W: [c]
P [a] tc 1, [b, c] W [c]
C [a, c] partion: [[a], [c], [b], [d], [g], [h], [e], [f]] cmp: 0
P [a, c] LEAF
B [a, c] to: [a]
      MCR: [a, b, d, e, g] old W: [] W: []
       tc 1, [b, c] W []
        to: PARENT
B [a]
       MCR: [a, b, d, e, g] old W: [b, c, d] W: [b, d]
      tc 0, [a, b, c, d] W [b, d]
      partion: [[b], [a, d], [c], [f, h], [e, g]] cmp: 0
P [b] tc 1, [a, d] W [a, d]
C [b, a] partion: [[b], [a], [d], [c], [h], [f], [g], [e]] cmp: 1
P [b] tc 1, [a, d] W [d]
C [b, d] partion: [[b], [d], [a], [c], [f], [h], [e], [g]] cmp: 1
P [b] tc 1, [a, d] W []
        to: PARENT
B [b]
       MCR: [a, b, d, e, g] old W: [d] W: [d]
     tc 0, [a, b, c, d] W [d]
      partion: [[d], [b, c], [a], [e, f], [g, h]] cmp: 0
P [d] tc 1, [b, c] W [b, c]
C [d, b] partion: [[d], [b], [c], [a], [f], [e], [h], [g]] cmp: O
P [d, b] LEAF
B [d, b] to: []
     MCR: [a, b, e] old W: [] W: []
     tc O, [a, b, c, d] W [] to: PARENT
Canonical Label: Path: [a, b] Permutation: [[h, e], [g, f]]
Automorphism: Path: [a, c] Auto Generator: [[c, b], [g, h], [e, f]] Automorphism: Path: [d, b] Auto Generator: [[d, a], [f, h], [e, g]]
```

Number of Nodes in Tree: 9 Total Processing Steps: 14