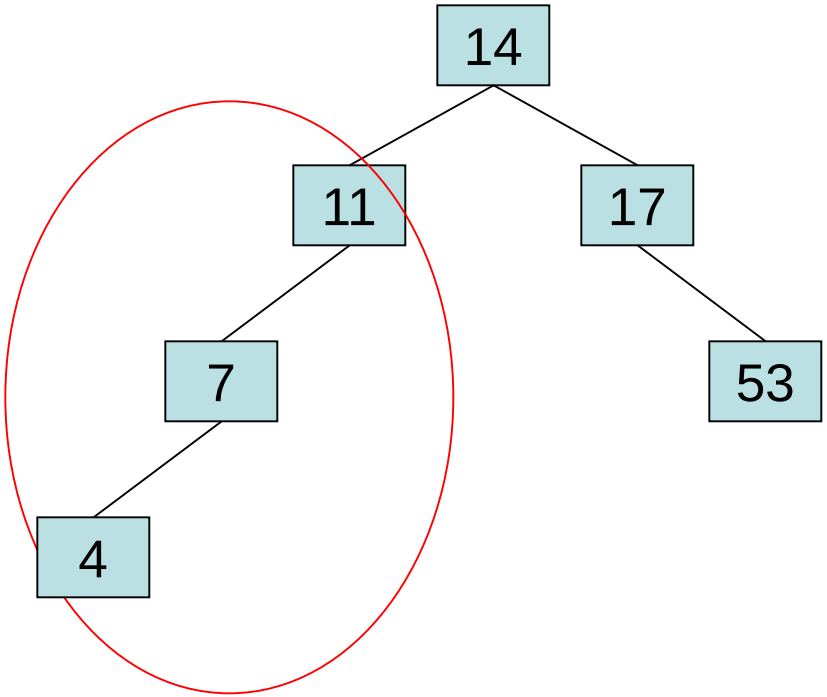
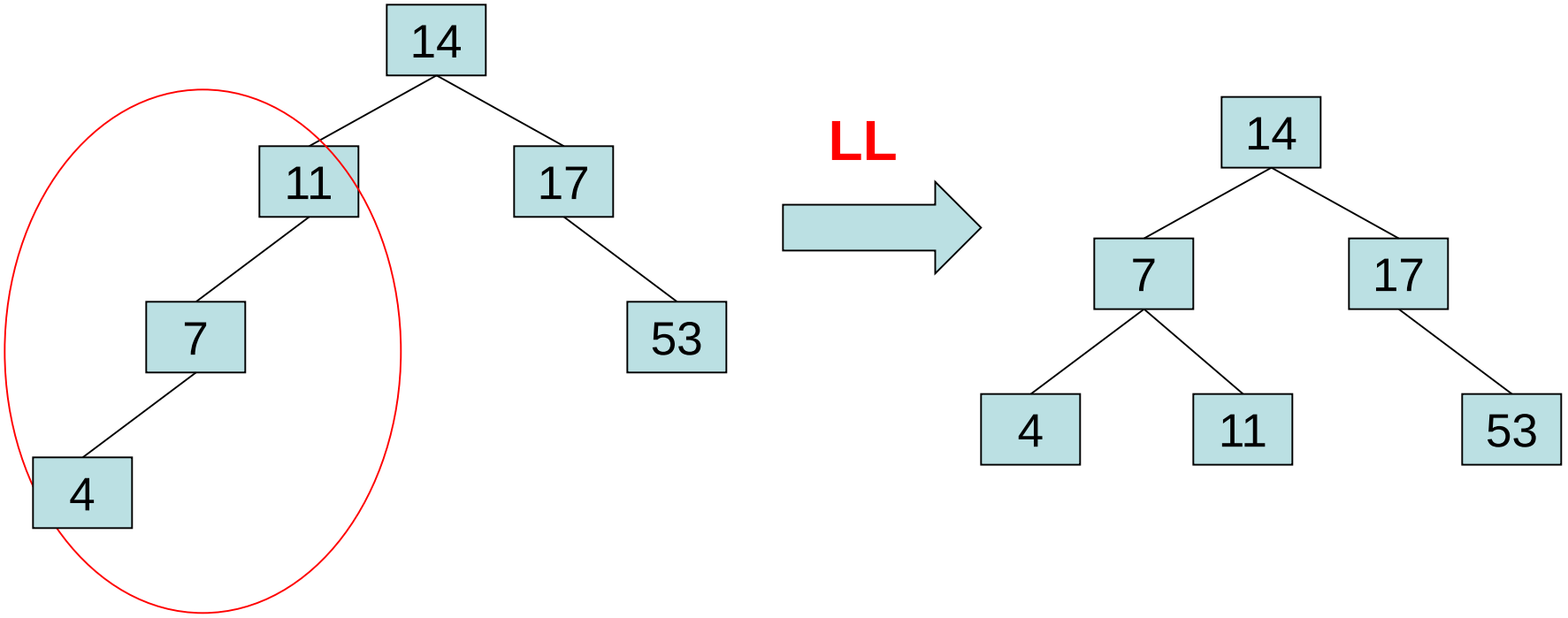
AVL TREE EXAMPLE:

- INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8
- DELETE 53, 11, 8

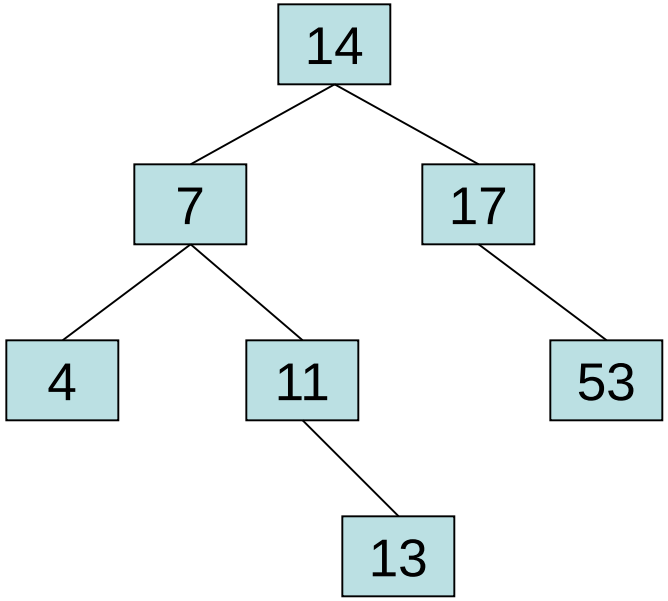
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



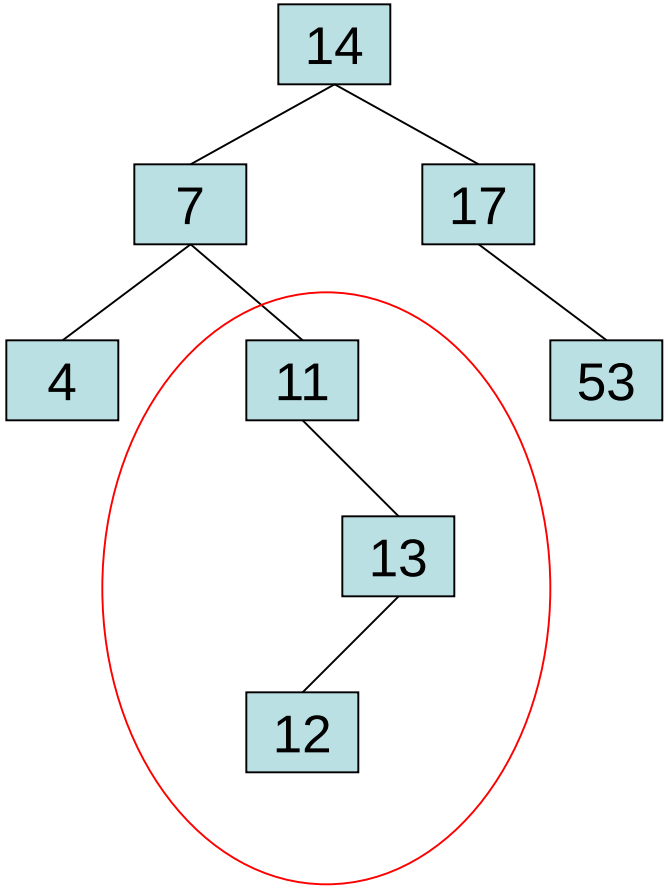
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



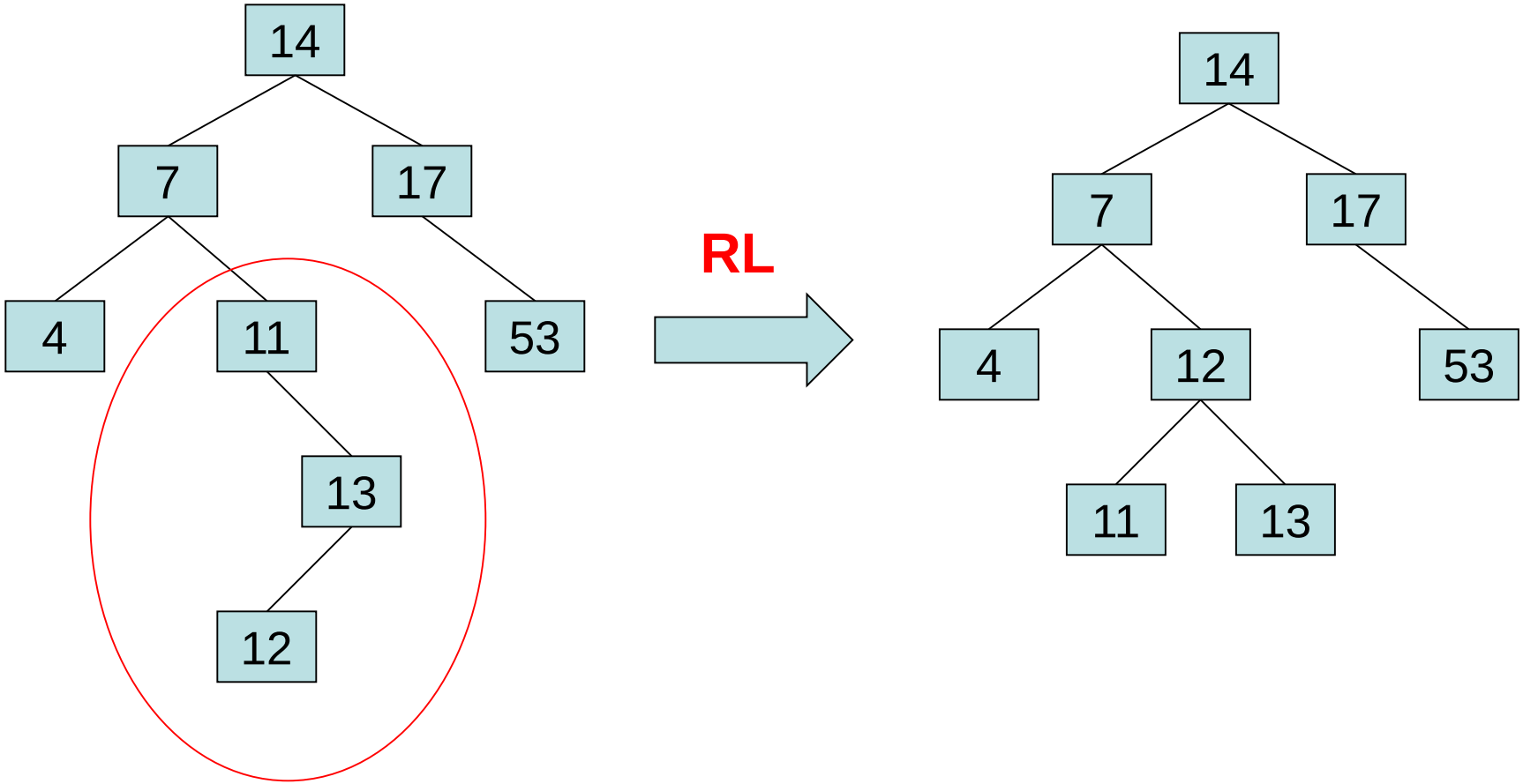
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



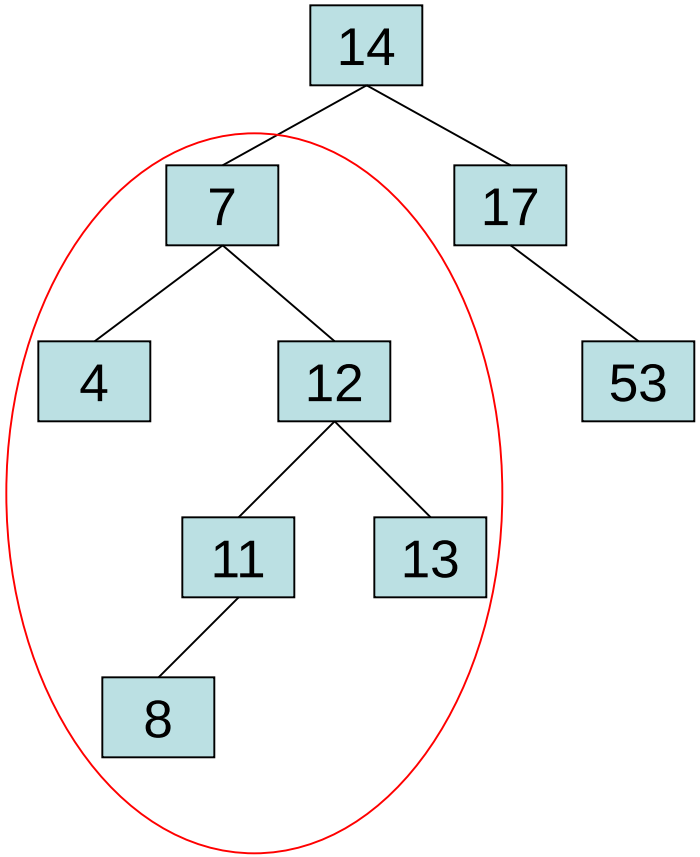
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



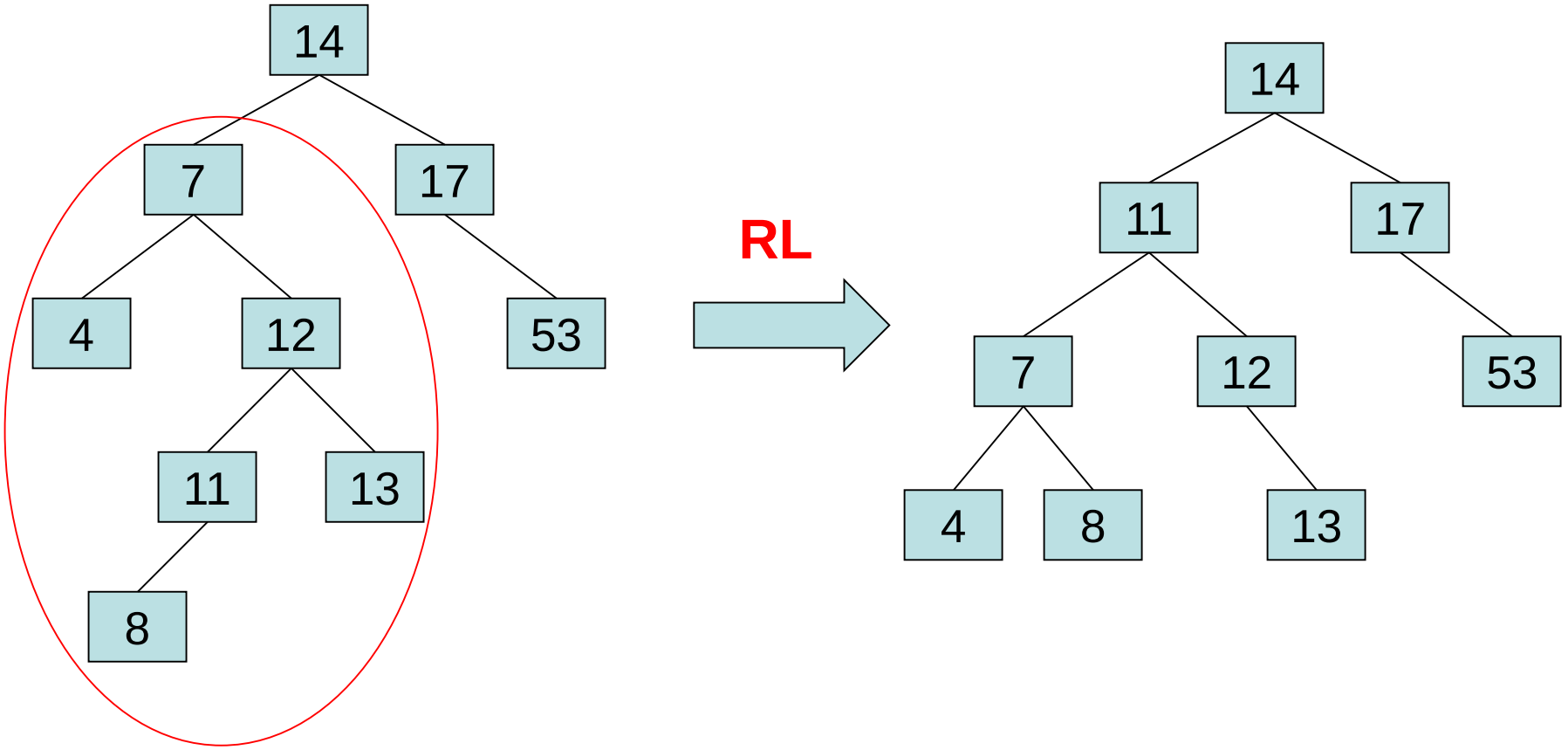
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



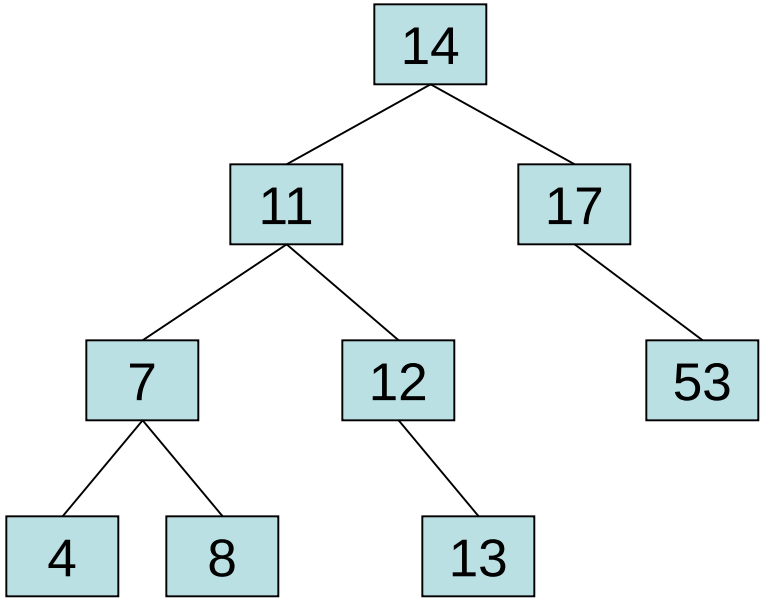
INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8



INSERT 14, 17, 11, 7, 53, 4, 13, 12, 8

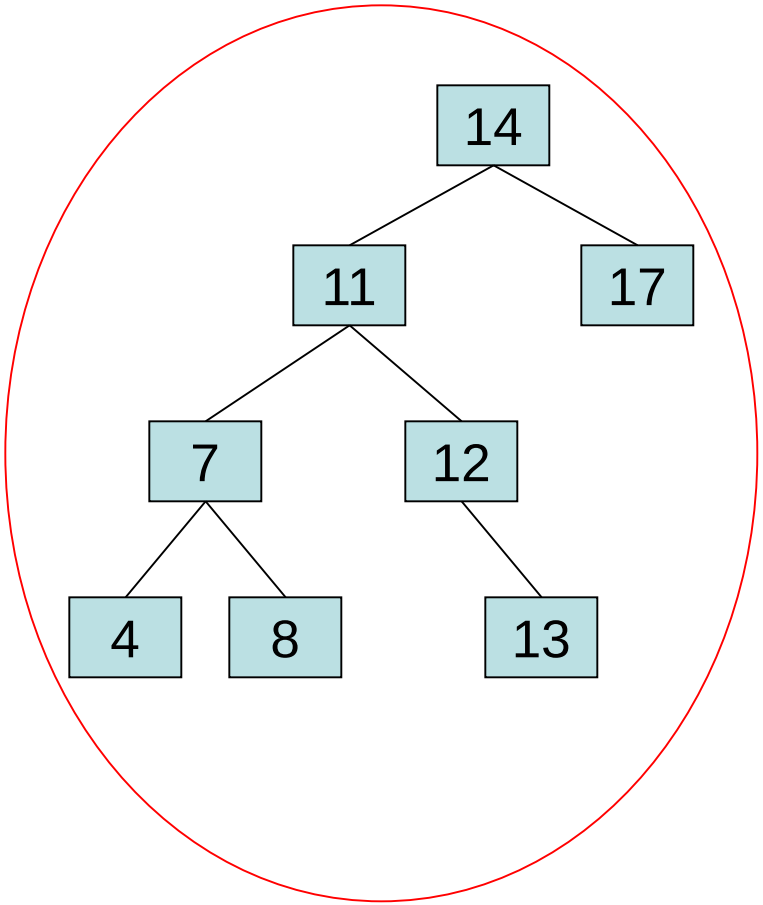


- **DELETE 53, 11, 8**



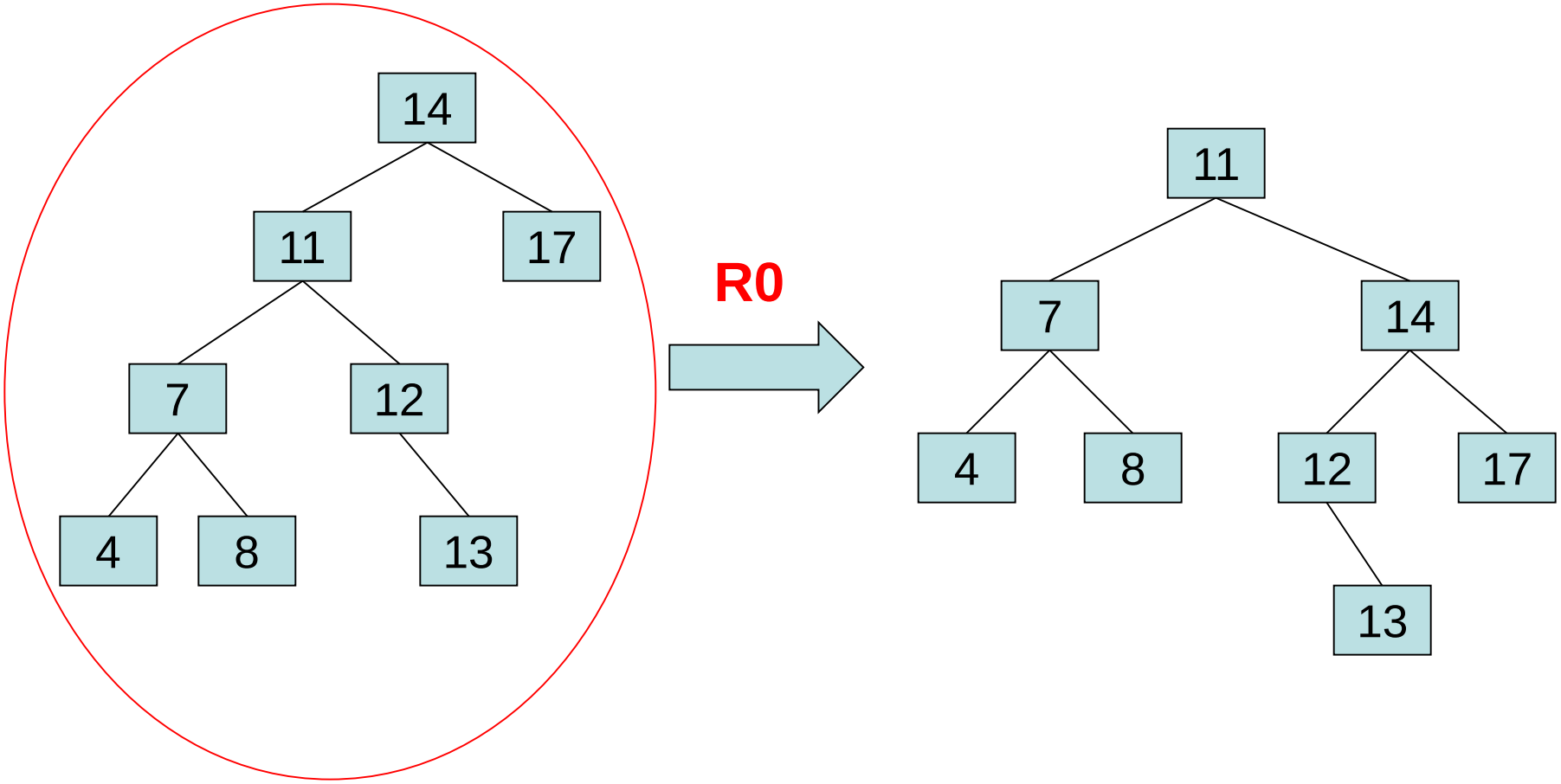
AVL Tree Example:

- **Now remove 53, unbalanced**



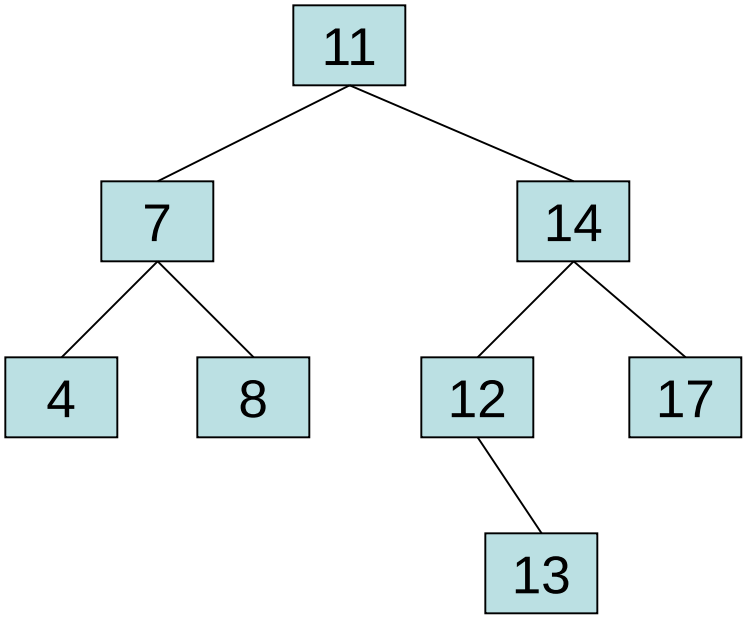
AVL Tree Example:

- **Balanced**



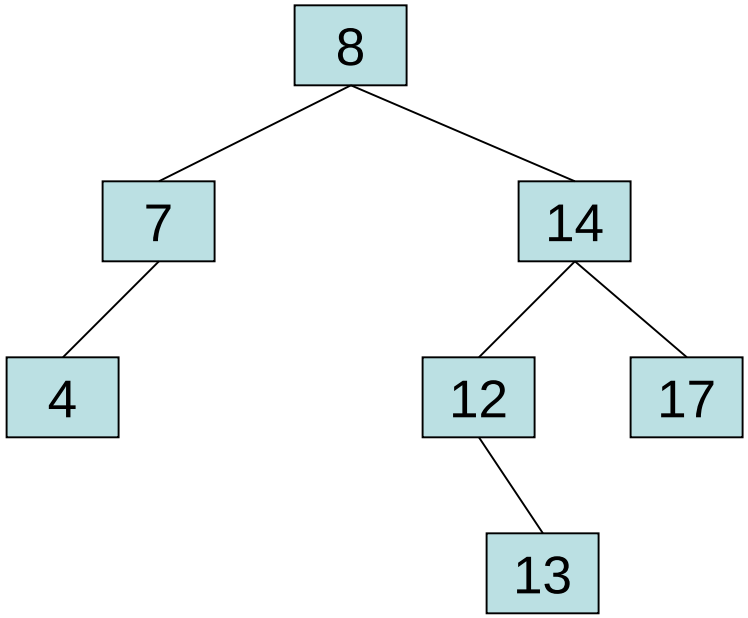
AVL Tree Example:

- **Remove 11**



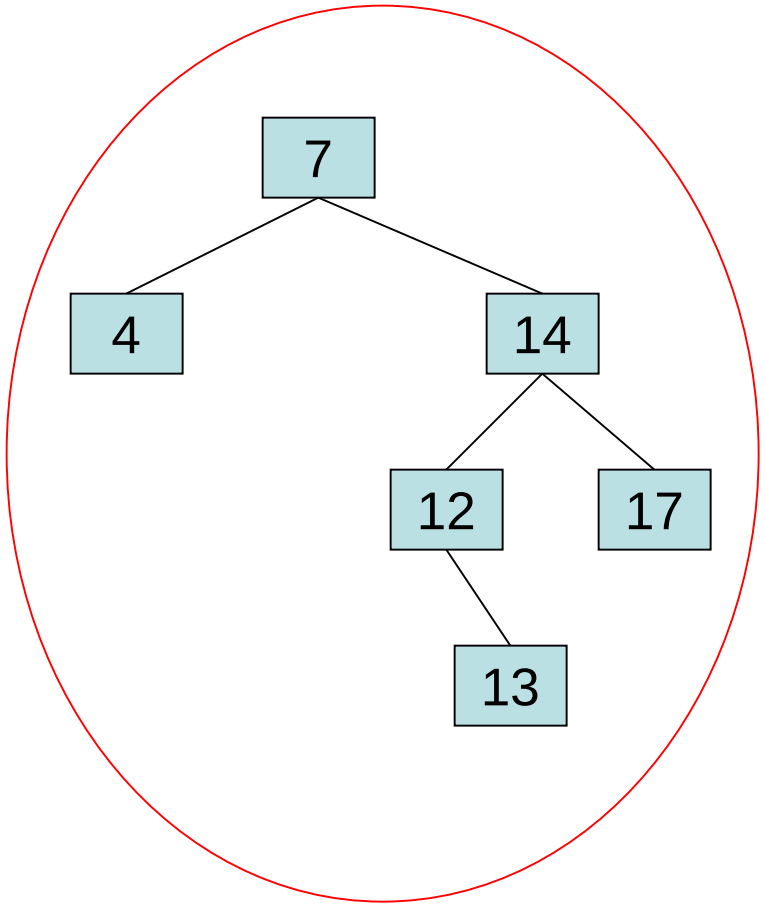
AVL Tree Example:

- **Remove 11, replace it with the largest in its left branch**
- **Still balance**



AVL Tree Example:

- **Remove 8, , replace it with the largest in its left branch**
- **unbalanced**



AVL Tree Example:

- **Balanced!!**