Glossary
Here are some terms that are used when discussing AVL trees:

- **child** – same as for binary search trees
- **parent** – same as for binary search trees
- **leaf** – same as for binary binary search trees
- **grandparent** – parent of parent
- **favorite** – the child who roots the taller subtree - if the parent’s balance factor is 1, the left child is the favorite – if the parent’s balance factor is -1, the right child is the favorite – if the parent’s balance factor is 0, no child is the favorite
- **linear** – true if the parent and child are both left children or are both right children
- **rotation** – make a child a parent and the former parent a child – preserves binary search tree ordering

Note that terms like favorite and linear are not found in other AVL search tree descriptions. They are used here in order to remove leftness and rightness issues from the main AVL tree algorithms.

**AVL properties**
An AVL tree has the following properties:

- Leaves have a balance factor of zero
- Interior nodes have a balance factor of -1, 0, or 1

The balance factor marks which child is the root of the taller subtree and is computed by subtracting the height of the right child’s subtree from the height of the left child’s subtree. This means that an AVL tree is nearly as balanced as it can be with just a little bit of slop allowed. Red-black trees, on the other hand, allow a good deal more slop with regards to balance.

Next: **Inserting into AVL trees**