

# BST search: Java implementation

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**Get.** Return value corresponding to given key, or null if no such key.

```
public Value get(Key key)
{
    Node x = root;
    while (x != null)
    {
        int cmp = key.compareTo(x.key);
        if      (cmp < 0) x = x.left;
        else if (cmp > 0) x = x.right;
        else if (cmp == 0) return x.val;
    }
    return null;
}
```

**Cost.** Number of compares is equal to 1 + depth of node.