```
Algorithm height(T)
        return heightHelper(T, T.root())
Algorithm heightHelper(T, p)
        if T.isExternal(p) then
                 return 0
        lh := heightHelper(T, T.leftChild(p))
        rh := heightHelper(T, T.rightChild(p))
        return 1 + MAX(lh, rh)
Algorithm isValidAVL(T)
        (valid, h) := isValidAVL(T, T.root())
        return valid
Algorithm isValidAVL(T, p)
        if T.isExternal(p) then
                 return (true, 0)
        (Ivalid, Ih) := isValidAVL(T, T.leftChild(p))
        (rvalid, rh) := isValidAVL(T, T.rightChild(p))
        pvalid := ABS(lh - rh) <= 1
        return (Ivalid \land rvalid \land pvalid, 1 + MAX(Ih, rh))
Algorithm isValidAVL(T, p)
        if T.isExternal(p) then
                 return 0
        Ih := isValidAVL(T, T.leftChild(p))
        rh := isValidAVL(T, T.rightChild(p))
        if lh < 0 \ \ rh < 0 then
                 return -1
        if ABS(lh - rh) > 1 then
                 return -1
        return 1 + MAX(lh, rh)
```