One way to do this is the following: in the external() function, set height and balance to be zero. Then, alter the right() function as follows:

```
\begin{split} & \text{Algorithm right():} \\ & \text{if isInternal}(v) \text{ then} \\ & \text{if } v.\text{left.height} > v.\text{right.height then} \\ & v.\text{height} = v.\text{left.height} + 1; \\ & \text{else} \\ & v.\text{height} = v.\text{right.height} + 1; \\ & v.\text{balance} = absval(v.\text{right.height} - v.\text{left.height}); \\ & \text{printBalanceFactor}(v) \end{split}
```