## Hint for Problem 112-d

You have seen that the sequence $b$ determines $a_{1}$. Does it determine any other $a_{j} \mathrm{~s}$ ? If you knew all the $a_{i} \mathrm{~s}$ and all the $b_{j} \mathrm{~s}$, could you reconstruct the tree? What are the possible values of $b_{1}$ ? $b_{j}$ ?

