**Prune(** root, subtree, data, epsilon **)**:

origAccuracy **:=** **accuracy(** root, data **)**

altRoot := root with subtree replaced with

**LeafNode(** distribution of labels from subtree leaves **)**

altAccuracy **:=** **accuracy(** altRoot, data **)**

**if (** origAccuracy **–** altAccuracy **<** epsilon **)**:

**return** altRoot

**else:**

**for (** each child in children nodes **)**:

root **=** **Prune(** root, child, data, epsilon **)**

**end for**

**return** Root

**end if-else**

**end Prune.**

