

```
1: Input tree  $f$ 
2: Input max_depth
3: for  $d = (\text{max\_depth} - 1) : 0$  do
4:     sub trees = Traverse( $f$ ; depth =  $d$ )
5:     for all sub trees do
6:         if  $\sum \text{leaf expected loss} \geq \text{root expected loss}$  then
7:             Prune to root of sub tree
8:         end if
9:     end for
10: end for
11: return pruned  $f$ .
```