



[1, 5, 3, 7, 10, 10, 40, 20, 5]

$dfs (Leaf\ x) = [x]$

$dfs (Node\ x\ t1\ t2) = dfs\ t1 ++ [x] ++ dfs\ t2$

dfs (Leaf x) = $[x]$ \rightarrow

dfs (Node $x\ t1\ t2$) = \cdot

$dfs\ t = helper\ [t]\ []$

helper (h:hs) acc =

case h of

Node $x\ t1\ t2 \rightarrow$

helper (hs ++ [t1, t2]) (acc ++ [x])

Leaf $x \rightarrow$

helper hs (acc ++ [x])

helper [] acc = acc

Map :: $(a \rightarrow b) \rightarrow [a] \rightarrow [b]$

$m \rightarrow m \rightarrow m$