

case_tree_node^{4,23}

Case $\text{tree_node}(x) \Rightarrow \text{body}(x) \text{ cont}(x_1, z)$
 $\equiv_{\text{def}} (\lambda x_1. \text{inr}(x_2) \Rightarrow \text{body}(\text{hd}((x_2.\text{tl}(x_1)))) ; \text{cont}(\text{hd}(x_1), z))([x_1])$

clarification:

Case $\text{tree_node}(x) \Rightarrow \text{body}(x) \text{ cont}(x_1, z)$
 $\equiv_{\text{def}} (\lambda x_1. \text{inr}(x_2) \Rightarrow \text{body}(\text{hd}((x_2.\text{tl}(x_1)))) ; \text{cont}(\text{hd}(x_1), z))(x_1.\text{nil})$