O
max_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_0, v_1)

C
max(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_0), my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)
[ ]

O
max(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_0)

C
max1(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], Zero, v_0), my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)
[ ]

O
max1(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], Zero, v_0)

C
le(C Succ [Zero], Zero), max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], Zero, v_0), my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)
[v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]]]

⊥

C
le(Zero, C Succ [Zero]), max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)
[v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]]]

O
le(Zero, C Succ [Zero])

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)
[v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]]]

O
my_length(C Succ [Zero] : C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_1)

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8)
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]]]

O
my_length(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8)

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length(Zero : Zero : [C Succ [Zero]], v_{11})
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]]]

O
my_length(Zero : Zero : [C Succ [Zero]], v_{11})

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length(Zero : [C Succ [Zero]], v_{14})
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]], v_{11} → C Succ [v_{14}], v_{12} → Zero, v_{13} → Zero : [C Succ [Zero]]]

O
my_length(Zero : [C Succ [Zero]], v_{14})

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length([C Succ [Zero]], v_{17})
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]], v_{11} → C Succ [v_{14}], v_{12} → Zero, v_{13} → Zero : [C Succ [Zero]], v_{14} → C Succ [v_{17}], v_{15} → Zero, v_{16} → [C Succ [Zero]]]

O
my_length([C Succ [Zero]], v_{17})

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0), my_length([], v_{20})
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]], v_{11} → C Succ [v_{14}], v_{12} → Zero, v_{13} → Zero : [C Succ [Zero]], v_{14} → C Succ [v_{17}], v_{15} → Zero, v_{16} → [C Succ [Zero]], v_{17} → C Succ [v_{20}], v_{18} → C Succ [Zero], v_{19} → []]

O
my_length([], v_{20})

C
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0)
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]], v_{11} → C Succ [v_{14}], v_{12} → Zero, v_{13} → Zero : [C Succ [Zero]], v_{14} → C Succ [v_{17}], v_{15} → Zero, v_{16} → [C Succ [Zero]], v_{17} → C Succ [v_{20}], v_{18} → C Succ [Zero], v_{19} → [], v_{20} → Zero]

Leaf
max1(C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], C Succ [Zero], v_0)
[v_1 → C Succ [v_8], v_2 → C Succ [Zero], v_3 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_6 → C Succ [Zero], v_7 → C Succ [C Succ [Zero]] : Zero : Zero : [C Succ [Zero]], v_8 → C Succ [v_{11}], v_9 → C Succ [C Succ [Zero]], v_{10} → Zero : Zero : [C Succ [Zero]], v_{11} → C Succ [v_{14}], v_{12} → Zero, v_{13} → Zero : [C Succ [Zero]], v_{14} → C Succ [v_{17}], v_{15} → Zero, v_{16} → [C Succ [Zero]], v_{17} → C Succ [v_{20}], v_{18} → C Succ [Zero], v_{19} → [], v_{20} → Zero]