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rules \rightarrow $eo(L, [J, L])$
 $eo([J, L, L])$

$eo([H1|T1][H2|T2], [H1, H2|T]) :- eo(T1, T2, T)$

call $\rightarrow eo([1, 2, 3, 4, 5], [a, b, c], L)$

1. $eo(L, [J, L])$ fail \Rightarrow where

$H1 = 1, T1 = [2, 3, 4, 5]$
 $H2 = a, T2 = [b, c]$
 $[H1, H2|T] = [1, a|T]$

2. $eo(L, [J, L])$ fail \Rightarrow where

$H1 = 2, T1 = [3, 4, 5]$
 $H2 = b, T2 = [c]$
 $[H1, H2|T] = [2, b|T]$

3. $eo(L, [J, L])$ fail \Rightarrow where

$H1 = 3, T1 = [4, 5]$
 $H2 = c, T2 = []$
 $[H1, H2|T] = [3, c|T]$

4. $eo(L, [J, L])$ success since the query is $eo([4, 5], [J, T])$.

T then unifies with L so $T = [4, 5]$, then bubbles back up the steps.

$T = [4, 5] \Rightarrow T = [3, c, 4, 5] \Rightarrow T = [2, b, 3, c, 4, 5]$
 $\Rightarrow T = [1, a, b, 3, c, 4, 5] = L$