```
eo(L, [], L).

eo([], L, L).

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

eo([1,2,3,4,5], [a,b,c], L).

L = [1,a|T] \rightarrow eo([2,3,4,5], [b,c], T)
T = [2,b|T2] \rightarrow eo([3,4,5], [c], T2)
T2 = [3,c|T3] \rightarrow eo([4,5], [], T3)
T3 = [4,5]
T \rightarrow [2,b,3,c,4,5]
L \rightarrow [1,a,2,b,3,c,4,5]
\rightarrow L = [1,a,2,b,3,c,4,5]
```