[ Head | Tail ]

[ a | b ]

[ Vegetable | Window ]

Vegetable = a    window =b

---

[ Head | [ Head | Head[C] ] ]

[ 1, 2 ]

[ 1 | [ 2 | [ ] ] ]

[ a b c d e ]

↓

[ H | T ]

H = a   ,   T = [b, c, d, e]

? - Range Query

   pairparts ( [H|T], H, T).

? - pairparts ( [1 |2], x, Y)
x = 1,
Y = 2.

# Recursion

factorial (1, 1).

factorial (N, F) :- N1 is N-1 , factorial (N1, F1), F is N* F1.

$N > 1$,

$N1 = N-1$     $(N-1)!$     $N * (N-1)!$

?- factorial (10, X)

duplicate_list_element ([], []).

duplicate_list_elements ( [H | T], [H, H | T2]) :- duplic. (T, T2)