

disjoint_sublists_witness^{4,23}

```
∀T:Type, L1, L2, L:T List.  
disjoint_sublists(T;L1;L2;L)  
⇒ (exists f:(N<||L1||+||L2|| → N<||L||).  
    Inj(N<||L1||+||L2||; N<||L||; f)  
    & (forall i:N<||L1||+||L2||.  
        (i < ||L1|| ⇒ L1[i] = L[f(i)] ∈ T) & (||L1|| ≤ i ⇒ L2[i - ||L1||] = L[f(i)] ∈ T)))
```