

WH-05:

aus 2-Tupel
↑
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Ex 6: 1. Ann: Für eine beliebige Liste list gelte: $\text{flip}(\text{flip list}) = \text{list}$

Wir zeigen dies über Induktion der Länge von list

1. Anf: $\text{list} = []$: $\text{flip}(\text{flip } []) \stackrel{\text{Def.}}{=} \text{flip } [] \stackrel{\text{Def.}}{=} []$

1. Schritt: $\text{list} = xS \Rightarrow \text{list} = x' :: xS = (x, y) :: xS$

1. Schluss: $\text{flip}(\text{flip } (x' :: xS)) = \text{flip}(\text{flip } ((x, y) :: xS))$

$\stackrel{\text{Def.}}{=} \text{flip } ((y, x) :: \text{flip } xS) \stackrel{\text{Def.}}{=} (x, y) :: \text{flip } (\text{flip } xS)$

1. Ann $(x, y) :: \text{flip } xS \equiv \text{list}$

□