

$$\text{with_elements}(\text{pass}()) \Leftrightarrow \text{pass}()$$



$$\text{with_column}(k, \text{pass}()) \Leftrightarrow \text{pass}()$$



$$\text{chain_of}(\text{with_elements}(p), \text{with_elements}(q)) \Leftrightarrow \text{with_elements}(\text{chain_of}(p, q))$$



$$\text{chain_of}(\text{with_column}(k, p), \text{with_column}(k, q)) \Leftrightarrow \text{with_column}(k, \text{chain_of}(p, q))$$



$$\text{chain_of}(\text{with_column}(i, p), \text{with_column}(j, q)) \Leftrightarrow \text{chain_of}(\text{with_column}(j, q), \text{with_column}(i, p)) \quad i \neq j$$



$\text{chain_of}(p, \text{filler}(x)) \Leftrightarrow \text{filler}(x)$



$$\text{tuple_of}(p, \dots, p) \Leftrightarrow \text{chain_of}(p, \text{tuple_of}(\text{pass}(), \dots, \text{pass}()))$$



$$\text{chain_of}(\text{tuple_of}(p_1, \dots, p_N), \text{column}(k)) \Leftrightarrow p_k$$



$\text{chain_of}(\text{wrap}(), \text{lift}(f)) \Leftrightarrow \text{lift}(f)$



$\text{chain_of}(\text{with_column}(k, \text{wrap}()), \text{distribute}(k)) \Leftrightarrow \text{wrap}()$



$$\text{chain_of}(\text{distribute}(k), \text{with_elements}(\text{column}(k))) \Leftrightarrow \text{column}(k)$$



$\text{chain_of}(\text{wrap}(), \text{flatten}()) \Leftrightarrow \text{pass}()$



$\text{chain_of}(\text{with_elements}(\text{wrap}()), \text{flatten}()) \Leftrightarrow \text{pass}()$



$\text{chain_of}(\text{with_elements}(\text{flatten}()), \text{flatten}()) \Leftrightarrow \text{chain_of}(\text{flatten}(), \text{flatten}())$



$\text{chain_of}(\text{wrap}(), \text{with_elements}(p)) \Leftrightarrow \text{chain_of}(p, \text{wrap}())$



chain_of(wrap(), flatten()) \Leftrightarrow pass()



Example

