

Test Lisp

Monday, 15 January 2024

12:06

$$\text{transform_in_number} = \begin{cases} 0, & \text{if list is nil} \\ 10 * \text{car } cl + \text{transform_list}(\text{cdr}(cl)), & \text{otherwise} \end{cases}$$

$$\text{reverse_list}(l) = \begin{cases} \text{nil}, & \text{if list is nil} \\ \text{reverse_list}(\text{cdr}(l)) \cup \{l\}, & \text{otherwise} \end{cases}$$

$$\text{compute_diff}(l_1, l_2) = \text{transform_in_number}(\text{reverse_list}(l_1)) - \text{transform_in_number}(\text{reverse_list}(l_2))$$

$$\text{transform_nr_in_list}(n) = \begin{cases} \text{nil}, & \text{if } n = 0 \\ \text{transform_nr_in_list}(n/10) + \{n \% 10\}, & \text{otherwise} \end{cases}$$