Laboratory 3

9. a. For a list of integer number, write a predicate to add in list after 1-st, 3-rd, 7-th, 15-th element a given value

b. For a heterogeneous list, formed from integer numbers and list of numbers; add in every sublist after 1-st, 3-rd, 7-th, 15-th element the value found before the sublist in the heterogenous list. The list has the particularity that starts with a number and there aren't two consecutive elements lists.

Eg.: [1, [2, 3], 7, [4, 1, 4], 3, 6, [7, 5, 1, 3, 9, 8, 2, 7], 5] =>

[1, [2, 1, 3], 7, [4, 7, 1, 4, 7], 3, 6, [7, 6, 5, 1, 6, 3, 9, 8, 2, 6, 7], 5].

a. pawd llinus $1(m) = \begin{cases} pawd llinus 1(m/2), & if m > 1 \text{ and} \\ m/2 + 2 + 1 = m \end{cases}$ 1, o showinse

add Elew (l, l, e, pos) = $\begin{cases} \beta, & \text{if } m = 0 \\ \beta l_1 \end{bmatrix} \cup \text{eVadd Elew}(l_2...lu, e, pos+1), \\ & \text{if } pan 2 \text{Minus 1}(pas) = \text{true} \\ & \text{fly Vadd Elew}(l_2...lu, e, pos+1), \\ & \text{otherwise} \end{cases}$

add Elew (l₁, e₁) U
U add Elew Hetero (l₂...lu, e),

if l₁ is a list

fly Vadd Elew Hetero (l₂...lu, l₁),

showing