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 heterogeneous 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.
$$addElaw(L=[l_1,l_2,...,l_n],e,pos)=$$

$$\emptyset, if lm(l)==0$$

$$1l_1 \mid U \in U addElaw(L=[l_2,...,l_n],e,pos+1), if pose(1,3,7,15)$$

$$1l_1 \mid U addElaw(L=[l_2,...,l_n],e,pos+1)$$

b. add Elew Hetero $(L = [l_1, l_2, ..., l_n], e) = 1$ of, if lu(L) = 0add Elew $(l_1, e, 1)$ U add Elew Hetero $(L = [l_2, ..., l_n], e)$, $|l_1|$ U add Elew Hetero $(L = [l_2, ..., l_n], e)$, $|l_1|$ U add Elew Hetero $(L = [l_2, ..., l_n], l_1)$, otherwise