Laboratory 7

9. Write a function that removes all occurrences of an atom from any level of a list.

$$myRemoveAtom(atm, l_1 \dots l_m) = \begin{cases} nil, & \text{if } m = 0 \\ myRemoveAtom(atm, l_1 \dots l_m), & \text{if } l_1 \text{ is a list} \\ nil, & \text{if } l_1 = atm \\ l_1 l_2' \dots l_m, & \text{otherwise} \end{cases}$$

where $l_1 \dots l_m$ is the sublist

$$myMain(atm, l_1 l_2 \dots l_m) = myRemoveAtom(atm, l_1 \dots l_m)$$