**Exercice 1**

decomposer([],P,[],[]).

decomposer([T|R],P,[T|L1],L2) :- T >= P, decomposer(R,P,L1,L2).

decomposer([T|R],P,L1,[T|L2]) :- T < P, decomposer(R,P,L1,L2).

?- decomposer([10,4,6],5,L1,L2).

L1 = [10, 6],

L2 = [4]

false.

**Exercice 2**

inserer(X,[T|R],[X,T|R]):- T >= X.

inserer(X,[T|R],[T|Res]):-T < X, inserer(X,R,Res).

inserer(4,[1,2,5,8],L).

L = [1, 2, 4, 5, 8]

false.