Examen TP 2015

**Exercice 2**

pair(X):-0 is X mod 2.

- pair(2).

true.

- pair(3).

false.

- pair(4).

true.

nb([],0,0).

nb([X|L],P,I):-pair(X),nb(L,M,I), P is M + 1.

nb([X|L],P,I):-impair(X),nb(L,P,N),I is N + 1.

-nb([4,2],P,I).

P = 2,

I = 0

false.

**Exercice 3**

listPair(0,[0]).

listPair(N,[N|LP]):-N>0,pair(N), M is N-2,listPair(M,LP).

listPair(N,LP):-N>0,impair(N), M is N-1,listPair(M,LP).