```
e([], []).
e([[] | YS], ZS) :- e(YS, ZS),!.
e([[H | T] | YS], ZS) :- e([H | [T | YS]], ZS),!.
e([X | XS], [X | ZS]) :- e(XS, ZS).
add(DS,V,RS) :-
reverse(DS,RD),
sumx(RD,V,[],RS).
sumx([D|DS],C,VS,XS) :-
   S is C+D, NC is S // 10, V is S - NC*10,
   sumx(DS,NC,[V|VS],XS).
sumx([],0,VS,VS) :- !.
sumx([],C,VS,XS) :-
   NC is C // 10, V is C - NC*10,
   sumx([],NC,[V|VS],XS).
lookup(T,N,V,NT) :-
    var(T),!,fail.
lookup(T,N,V,NT) :-
    nonvar(N), nonvar(V), ins(T,N,V,NT), !.
lookup(T,N,V,NT) :-
    nonvar(N), tst(T,N,V), T=NT.
ins([], N, V, [(N,V)]).
ins([(N,_) | VS], N, V, [(N,V) | VS]) :- !.
ins([X|XS], N, V, [X|VS]) :- ins(XS, N, V, VS).
tst([], _, _) :- !, fail.
tst([(N,V) | _], N, V) :- !.
tst([_ | VS], N, V) :- tst(VS, N, V).
/* 4 */
search(P,LL) :-
retractall(pos(_)),
bagof(L,track(P,P,O,L),LL).
track(P,P,N,[P]) :- N >= 20, N =< 22, !.
track(P,P,N,_) :- (N>0,!, fail;N==0,fail).
track(A,P,N,[A|T]) :-
N < 22,
assertz(pos(A)),
nextstep(A,B),
(not(pos(B));B==P),
NN is N+1,
track(B,P,NN,T).
track(A, . . . ) :-
track(A,_,_,_):-
pos(A),
retract(pos(A)),
!, fail.
nextStep(p(X,Y),p(XX,YY)) :-
     move(I,J),

XX is X+I,

YY is Y+J,

XX > 0, YY > 0.

/* XX < 9, YY < 9. */
move(1,0).
move(0,1).
move(-1,0).
move(0,-<mark>1</mark>).
```