

ack(0, N, M) :-
M is N+1.
ack(M, 0, M) :-
N>0
N1 is N-1
ack(N1, 1, M).
ack(X, Y, Z) :-
X>0,
Y>0,
Y1 is Y-1,
ack(X, Y1, A),
X1 is X-1,
ack(X1, A, Z).
add(X, [], X).
add(X, [X|Xs], [X|Xs]).
add(X, [Y|Ys], [Y|Zs]) :-
add(X, Ys, Zs).

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