```
:- consult('../gv.pl').
:- consult('../combosets.pl').
\label{eq:crypto(N1,N2,Goal, ex(N1, +, N2)):-Goal is (N1 + N2).}
crypto(N1,N2,Goal, ex(N1, *, N2)):- Goal is (N1 * N2).
crypto(N1,N2,Goal, ex(N1,-, N2)) :- Goal is (N1 - N2).
crypto(N1,N2,Goal, ex(N2,-,N1)) :- Goal is (N2 - N1).
crypto(N1,N2,Goal, ex(N1, /, N2)) :- N2 > 0, Goal is ( N1 / N2).
crypto(N1,N2,Goal, ex(N2, /, N1)) :- N1 > 0, Goal is ( N2 / N1).
crypto(N1,N2,N3,G,Expr):-
        combos(set(N1,N2,N3), combo(A, B) , extra(C)),
        crypto(A, B, SG, SGE),
        crypto(C, SG, G, UGE),
        substitute(SGE,SG,UGE,Expr).
crypto(N1,N2,N3,N4,G,Expr):-
        combos(set(N1,N2,N3,N4), combo(A, B), extra(C, D)),
        crypto(A, B, SG, SGE),
        crypto(C,D,SG,G,UGE),
        substitute(SGE,SG,UGE,Expr).
substitute(New, Old, ex(Old, O, Z), ex(New, O, Z)).
substitute(New, Old, ex(X, O, Old), ex(X, O, New)).
substitute(New, Old, ex(X, O, Z), ex(Q, O, Z)):-
        substitute(New, Old, X, Q).
substitute(New, Old, ex(X, O, Z), ex(X, O, Q)):-
        substitute(New, Old, Z,Q).
```