

$\% \text{listaprim}e(+N, -LP) \quad \{ P \in \mathbb{Z}^N \mid P \text{ e prim}\}$

$\text{listaprim}(0, []) :- !.$

$\text{listaprim}(1, []) :- !.$

$\text{listaprim}(N, [N|T]) :- \text{prim}(N), !,$
 $LPN \text{ is } N-1, \text{listaprim}(PN, T).$

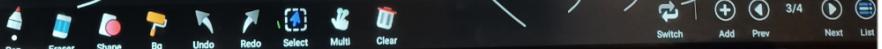
$\text{listaprim}(N, T) :- \neg \text{listaprim}(N, L),$
 $L = [S, 3, 2].$

$\% \text{listaw}(+N, -L)$

$\text{listaw}(N, L) :- \text{auxlistaw}(N, L).$

$\text{auxlistaw}(N, N, []) :- !.$

$\text{auxlistaw}(K, N, [K|T]) :- K < N,$
 $SK \text{ is } K, \text{auxlistaw}(SK, N, T).$



$\text{aw}(N, LP) :- \text{listaw}(N, L), \text{ciunire}(L, LP).$

$\text{ciunire}([], []).$

$\text{ciunire}([H|T], [H|LP]) :- \text{filtreaza}(H, T, L),$
 $\text{ciunire}(L, LP).$

$\text{filtreaza}(-, [], []).$

$\text{filtreaza}(X, [H|T], [H|U]) :- H \text{ mod } X \neq 0,$
 $! , \text{filtreaza}(X, T, U).$

$\text{filtreaza}(X, [E|T], U) :- \text{filtreaza}(X, T, U).$

