



Standard mode

$?- 10 \geq 12 \Rightarrow \text{false}$   
 $?- 10 + 2 = 12 + 1 \Rightarrow \text{true}$   
 $?- 10 \neq 12 \Rightarrow \text{true}$   
 $?- 10 \leq 12 \Rightarrow \text{true}$   
 $?- N \bmod 3 \Rightarrow N \bmod -10 \text{ div } 3$   
 $?- N = -4 \Rightarrow \max\{x \in \mathbb{Z} \mid x \leq -10, 3|x\} = -12$   
 $?- N \bmod -10 \text{ mod } 3 \Rightarrow -12 \bmod 3 = -4$   
 $?- N = 2 \quad ?- N \bmod -10 \Rightarrow N = 2 \quad ?- N \bmod -10 \Rightarrow N = 2$   
 $?- N \bmod -10 \text{ rem } 3 \Rightarrow N = -1 \quad ?- N \bmod -10 \text{ rem } 3 \Rightarrow N = -9$

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$\forall n \in \mathbb{N} \text{ even: } \exists a, b \in \mathbb{Z} \quad (a, b) = \{x \in \mathbb{Z} \mid a \leq x \leq b\}$   
 $n \in \text{prim} \Leftrightarrow n \neq 1 \wedge (\forall d \in \mathbb{N}) \quad d \mid n \Leftrightarrow d \in \{1, n\}$   
 $\Leftrightarrow n \geq 2 \quad \forall d \in \{1, n-1\} \quad (d \nmid n)$   
 $\Leftrightarrow n \geq 2 \quad \forall d \in \{1, n-1\} \quad (d \nmid n) \Rightarrow (d \nmid n-1)$   
 $\forall n \in \mathbb{Z} - \mathbb{N}: n \in \text{prim} \Leftrightarrow -n \in \text{prim}$

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$\text{prim}(-N) = \text{true} \Leftrightarrow N \in \mathbb{Z} \text{ si } N \in \text{prim}$   
 $\text{prim}(N) :- \text{integer}(N), N \geq 0, \text{eprim}(N)$   
 $\text{prim}(N) :- \text{integer}(N), N < 0, K \text{ is } -N, \text{eprim}(K)$   
 $\text{prim}(N) :- \text{integer}(N), (N \geq 0, \text{eprim}(N)) \quad \text{or} \quad (N < 0, K \text{ is } -N, \text{eprim}(K))$   
 $\text{prim}(N) :- \text{integer}(N), (N \geq 0, \text{eprim}(N)), \text{write}(Nps)$   
 $?- \text{prim}(1), \quad \text{Nps false}$   
 $?- \text{prim}(-12), \quad K \text{ is } -N, \text{eprim}(K)$

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%  $\text{musediv}(D, N) \Leftrightarrow \exists X \in D, N - 1 \ni (X \times N)$

$\text{esprim}(N) :- \text{musediv}(2, N)$ .

$\text{musediv}(N, N)$ .

$\text{musediv}(D, N) :- D < N, N \bmod D > 0$ ,

SD is  $D + 1$ ,  $\text{musediv}(SD, N)$ .

%  $\text{listaprime}(+N, -L) \quad L \in \mathbb{Z}/N \mid p \in \text{prim}^3$ .

$\text{listaprime}(N, [ ]) :- N < 2, !$ .

$\text{listaprime}(N, [N | L]) :- \text{prim}(N), !, TN \in N - 1, \text{listaprime}(TN, L)$ .

$\text{listaprime}(N, L) :- \text{listaprime}(PN, L')$ .

$\text{listaprime}(N, L) :- PN \in N - 1, \text{listaprime}(N)$ .

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(2) (3) ~~(4)~~ ~~(5)~~ ~~(6)~~ ~~(7)~~ ~~(8)~~ ~~(9)~~ ~~(10)~~

$\text{lista}(N, L) :- \text{auxlista}(2, N, L)$ .

$\text{auxlista}(N, N, [ ])$ .

$\text{auxlista}(K, N, [K | T]) :- K < N, SK \in K + 1, \text{auxlista}(SK, N, T)$ .

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

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

$\text{cunire}(M, L)$ .

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

$\text{filtreaza}([X | T], [H | L], [H | L']) :- H \bmod X > 0, \text{filtreaza}(X, T, L')$ .

$\text{filtreaza}([X | T], [H | L], [H | L']) :- \text{filtreaza}(X, T, L')$ .

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