24.4.2018

```
% pocet_m_d(+List, ?N)
pocet_m_d([H|T], N) :-
    pocet_m_d(H, NH),
    pocet_m_d(T, NT),
    N is NH + NT.
pocet_m_d(Num, 1) :- number(Num).
pocet_m_d(_, 0).
```

01 ; 02 ; 03 ; 04.

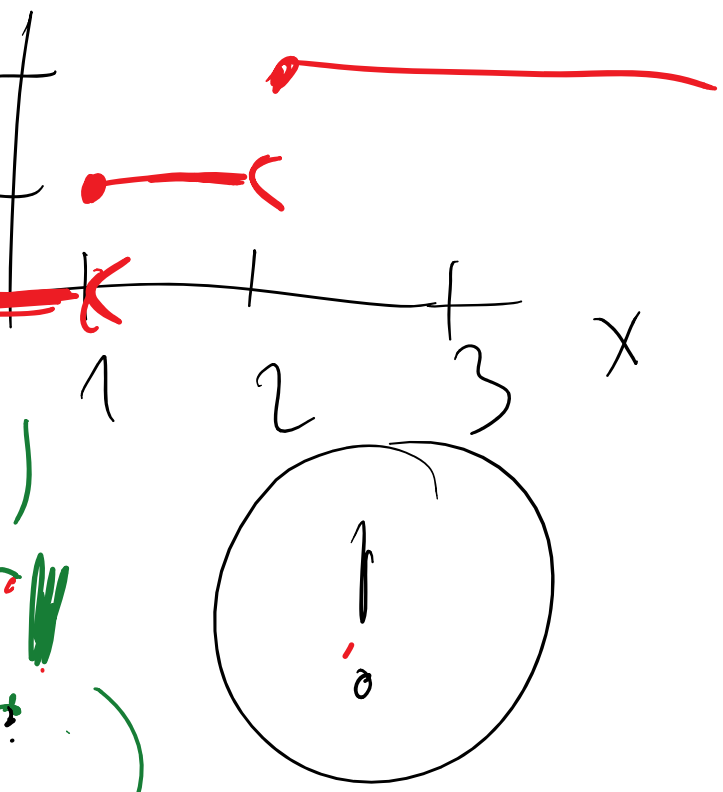
```
hypis_prev(List) :-
    member(X, List),
    write(X),
    fail.
hypis_prev(_).
hypis_pos([H|T]) :-
    prefer(Name, Surname, ...),
    ...
    fail.
```

```
pocet(Lst, N) :- pocet_aux(Lst, N, 0).

pocet_aux([HIT], N, Aux) :-
        Aux1 is Aux + 1,
        pocet_aux(T, N, Aux1).
pocet_aux([], N, N).
```

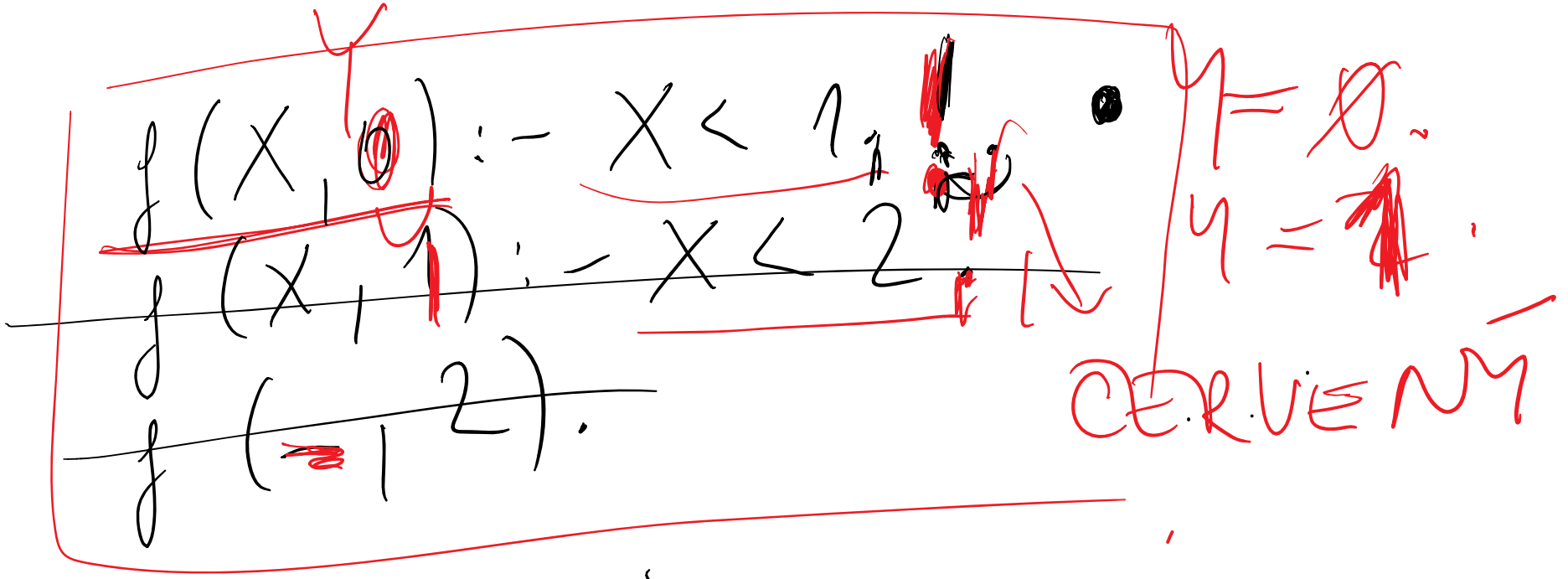
```
plus2([H1|T1],[H2|T2]):-
    plus2(H1,H2),plus2(T1,T2).
plus2(E1,E2):-number(E1),
    E2 is E1+2.
plus2(E1,E2):-number(E2),
    E1 is E2-2.
plus2([],[]).
```

PREDIKAT REZ

```
f(X,0) :- X<1.
f(X,1) :- X>=1, X<2.
f(X,2) :- X>2.

?- f(3,Y).
Y = 2
```



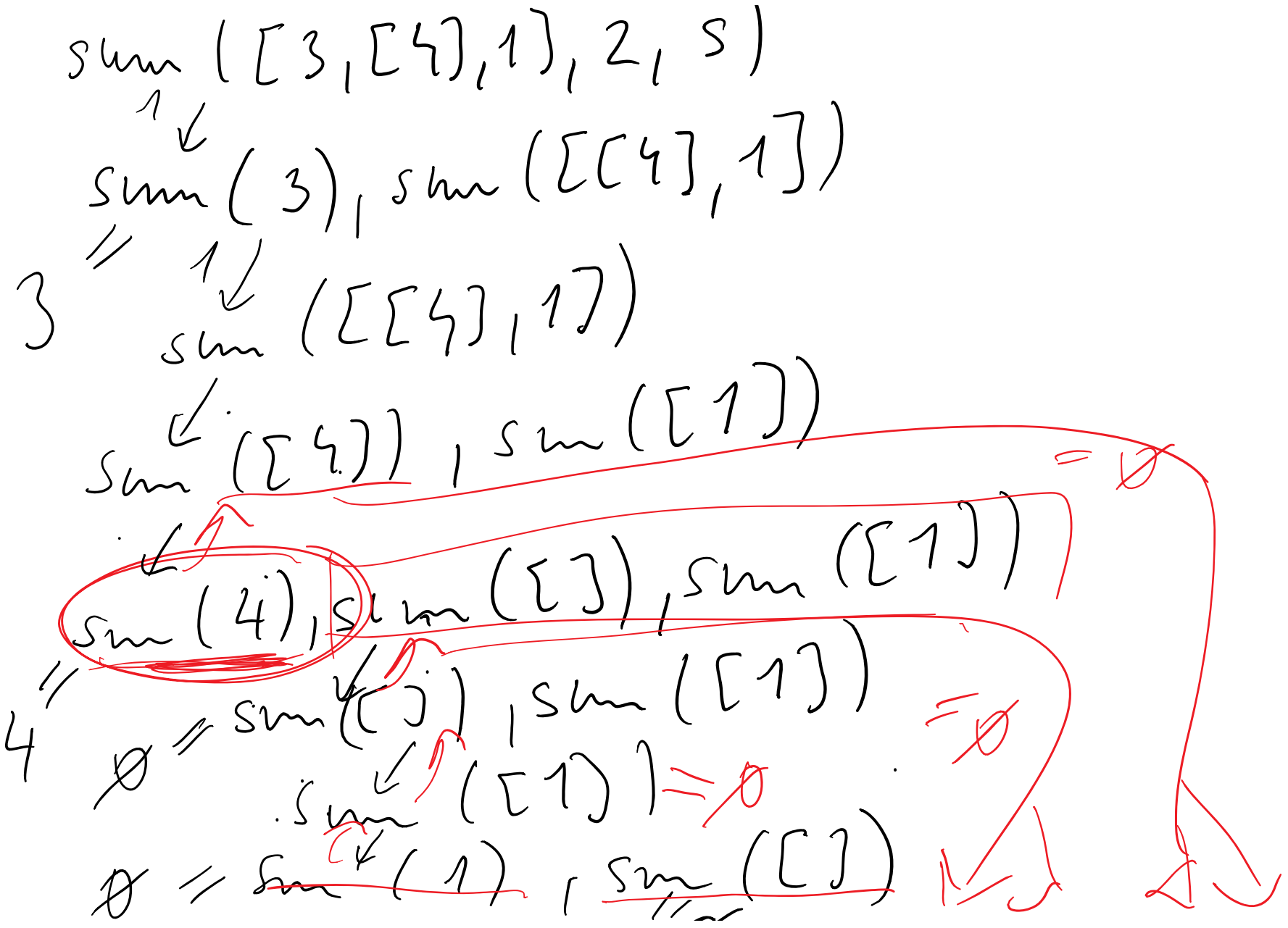
ZIELONY



2 - f(-1, Y).

Y = 0 ; false.

2 - f(-1, 2). yes


sum([3,[4],1],2,s)
sum(3), sum([[4],1])
3
sum([[4],1])
sum([4]), sum([1])
sum(4), sum([]), sum([1])
4
∅
sum([]), sum([1])
sum([1])=∅
∅
sum(1), sum([])
=∅
=∅

```
sum([H|T],N,S):-
    sum(H,N,S1),sum(H,N,S2)
    S is S1+S2!.
sum(E,N,E):number(E),E>N!.
sum(_,_,0).

sum([E],N,0):- E\=[_|_],
    not((number(E),E>N)).
```