

5000se ([], -).

SUBSE (X5, [-145]): - SUBSE (X5, 45),

SUBSE ([X1X5], [X145]): - SUBSE (\$6, 95),

coreof (11,12,12).

coreof (11,12,12).

(T, 12,13)

(1,12,14).

double:

double ([H]): double (

double ([H]): -double (

double ([H]): -double (

double ([H]): -double (

double ([H]): -double (T1,T2).

# element al:

element\_at (H,[H1-], 01).

element\_af(x,T,N):-element\_af(x,T,Ni)
Nis NI+1.

# Reverse

Memberiolup

#

member (+, [H]-]).
member (X,T):- member (X,T).

# concal.

concat ([], 12, 12). (2 base ase)

Concat [H17], L2, [H123]): - concat(7, L2, L3).

# deletes,

deletes (H, [HIT], T).

deletes (X [-17], L3): deletes (X, T,

deletes (X, [QIT], [QLI]): - detetes (X, T, LI)

# length:

len ([], 0). 7(NI+1)

1en ([-|T], N):- 1en(T, N1), N 13 NI+1

# sum:

sum ([],0). sum ([H |T), N):-sum(T,N), N is NI+H 1,2,0 | 5,2,7

add (o, x, x): isnumber (X)

add (.(x), y, <(x): - add (x, y, g).

5,3,6

A sub:

sub (x, x, 0): - isnumber(x)

sub (a(x), y), s(z): - sub(x, 4, 2).

# Times:

(1h) 5 20 (R), (Y), R)

times (0, x, 0): - isnumber(x).

Times (s(x), 4, R):-fimes(xy, 8), add(7, 4, R).

## Pence Malhonodics

is number (3).
is number (3(x)): - is num ber (X).

# isequal (x,x):- isnumber(x).
isequal (4x), (4y):- isequal (x,y).

# le (0, x) := isnumber(x).

le (6(x), s(y)) := iso le(x, y).

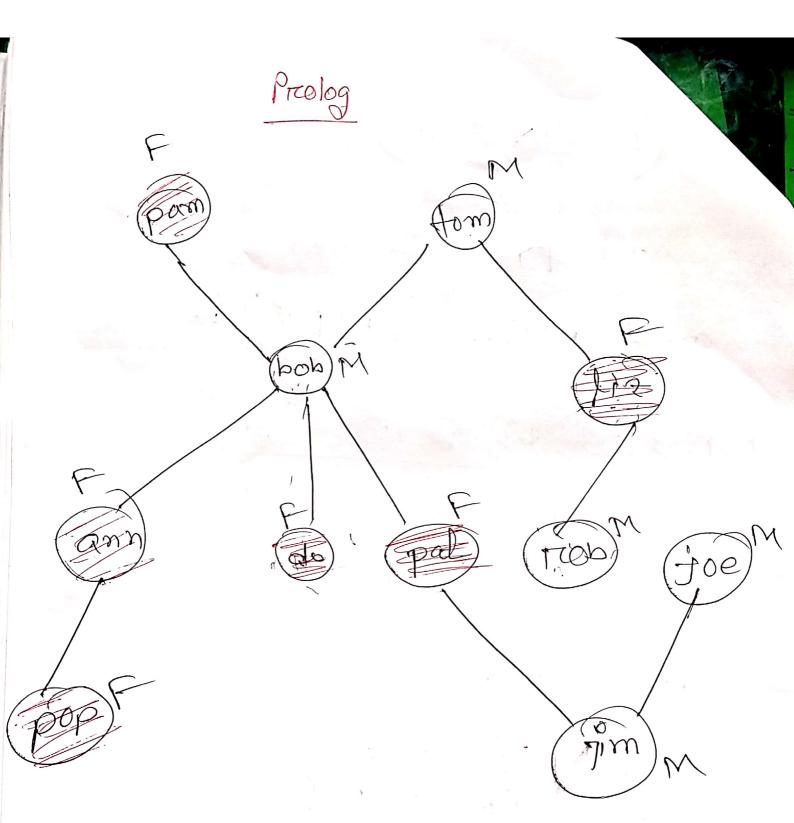
ge(x,0):=ignumber(x), ge(s(x),s(y)):=ge(x,y).

# is even (o).
is even (b(s(x))): - is even (x) is number (x).

# isodd ( $\circ$ )

# isodd ( $\circ$ ).

Isodd ( $\circ$ ( $\circ$ ( $\circ$ )): - isodd ( $\circ$ ).

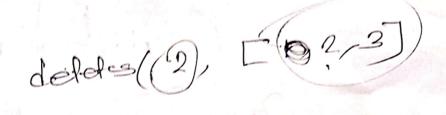


· [1]

concof [HIT], L2, [HIT]:

11,2,3,5,8,13,21,

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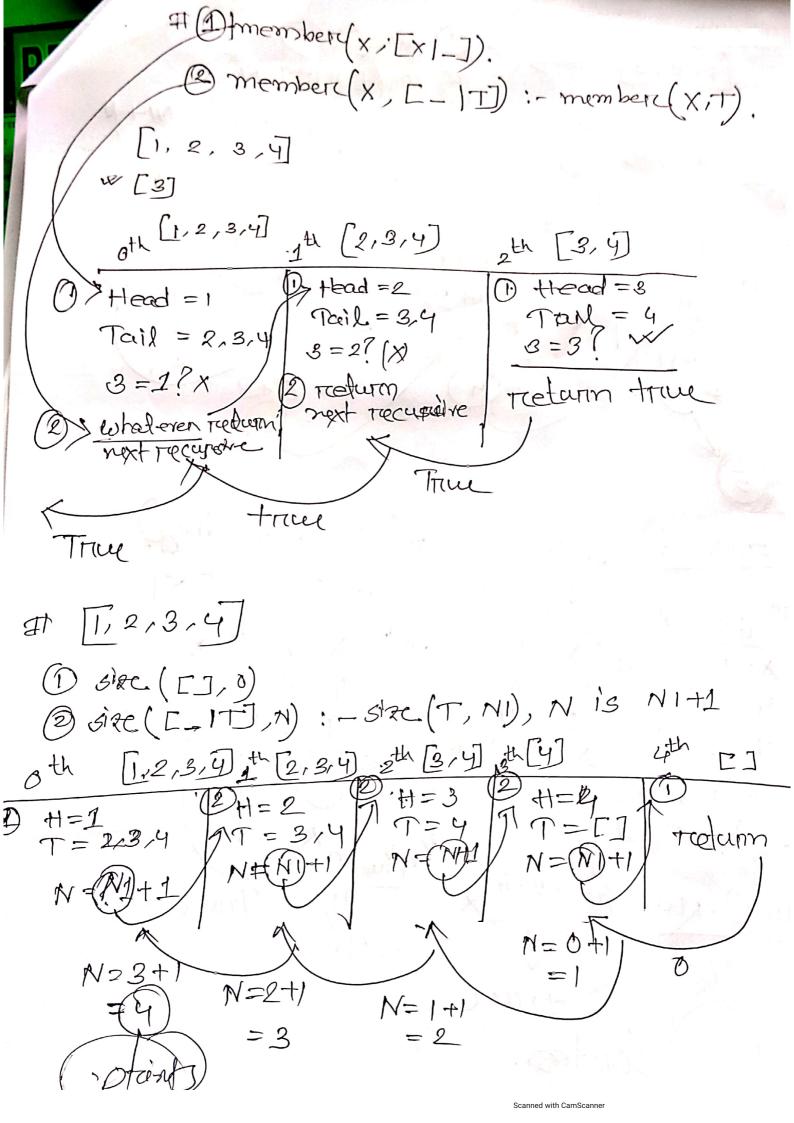


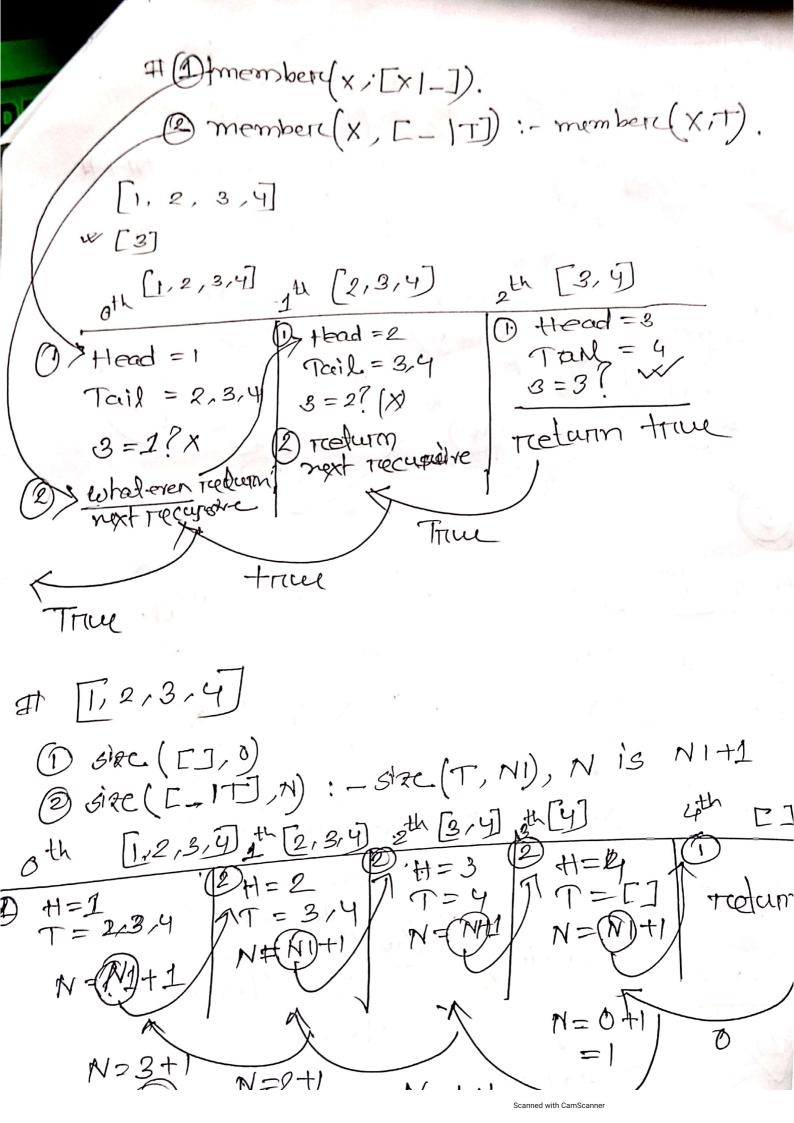
4/1

(2, [2,3,])

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49 3/ S. add(3(5(0))),

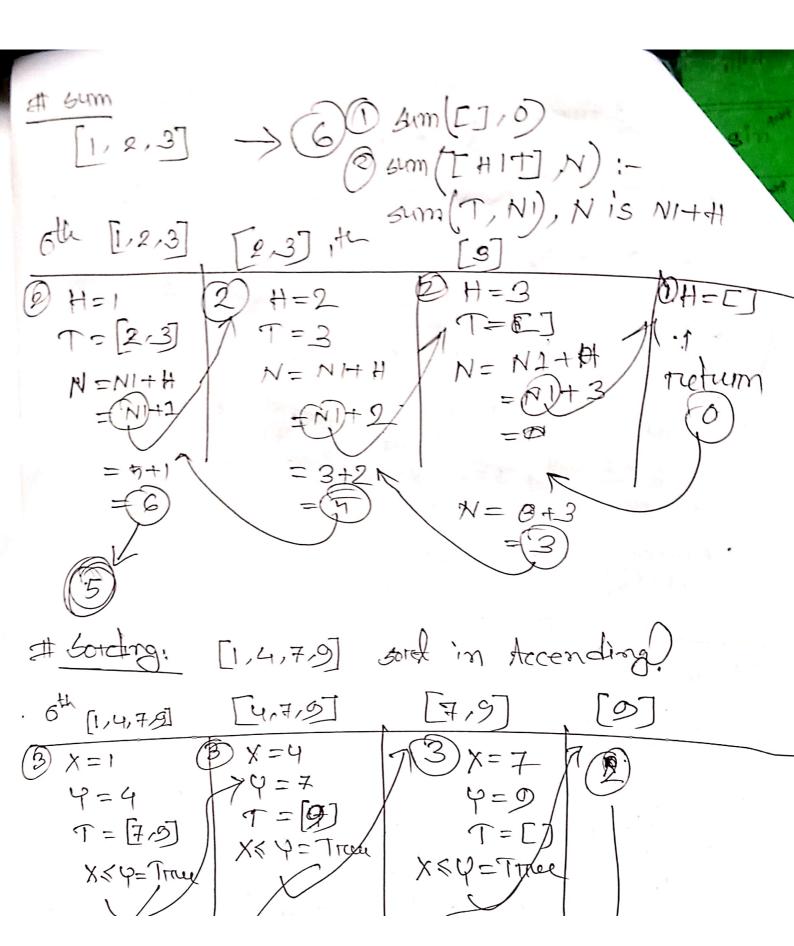




Amoul Hasen Proba Progreamming > Knowledge box facts/Universal truth. # 4 Focts 11 No vs False: relationalip objet objet. thy Yes/NO/else

i) every relationship/objects stards with small alphab

Fadshovsfalse.pl &code>



Sub( $\overline{h}$ ,  $\overline{h}$ ,  $\overline{o}$ ) result.

Sub( $\overline{h}$ ,  $\overline{h}$ ,  $\overline{o}$ ) sub( $\overline{x}$ ,  $\overline{x}$ ,  $\overline{o}$ ).

Sub( $\overline{y}$ ,  $\overline{y}$ ,  $\overline{s}$ ?

Sub( $\overline{x}$ ,  $\overline{y}$ ,  $\overline{s}$ ).

( $\overline{y}$ ,  $\overline{h}$ ,  $\overline{s}$ ).

( $\overline{y}$ ,  $\overline{h}$ ,  $\overline{s}$ ).

( $\overline{y}$ ,  $\overline{h}$ ,  $\overline{s}$ ).

( $\overline{h}$ ,  $\overline{h}$ ,  $\overline{s}$ ).

result of add add ( O, Byn > add (x, 4, 3) (8, 5, 13) (7, 5, 12) (6,5,11) add (s(x), y), s(z)):-(5/ 5/10) add (x,4,2). (4,5,9) (3,5/8) (0, [5/5)

at concat () append (EJ) append [[HIT], be, [HIL3]):-append (T, l2, l3) = append (CJ, l2, l2) [1,2,3], [a,5] [1,12,3], [a,b] => R=[1,2,13,9,b, ,  $[a,b] \Rightarrow R = [2,3,0,4]$  $R = \Gamma 3 q r b r r T$ [], [a,b], = [a,b]

contact (E], 12, L2)
concat (H) (L2), [H) L3): - coned (T, 12, 13)

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