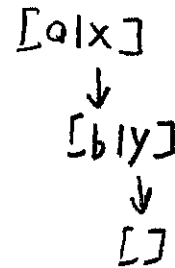
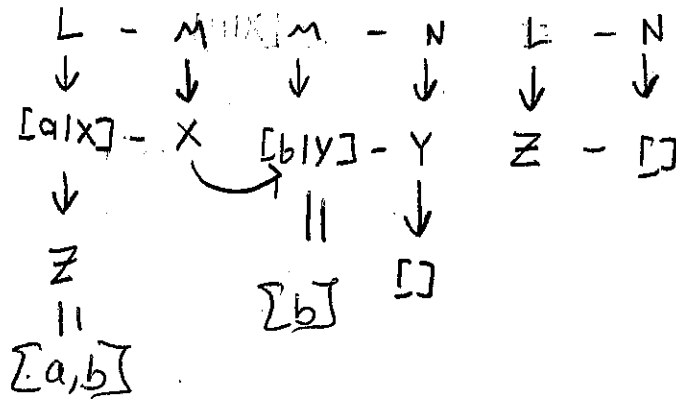


1. What is the result of the following query?

?- appdDL(L - M, M - N, L - N) = appdDL([a|X]-X, [b|Y] - Y, Z - []).



[a, b]

471S09Q5 Name: Peter Dobric

1. What is the result of the following query?

$$\text{?- appdDL}(L - M, M - N, L - N) = \text{appdDL}(\underbrace{[a|X]}_L - \underbrace{X}_M, \underbrace{[b|Y]}_N - \underbrace{Y}_L, \underbrace{Z - []}_N)$$
 $L = [a, b]$ $M = [b]$ $N = []$ $L = \cancel{[a, b]}$ $Y = []$ $X = [b]$

yes

Nice
job

[a|[b|[]]]

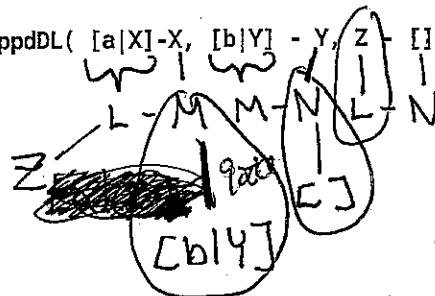
1. What is the result of the following query?

?- appdDL(L - M, M - N, L - N) = appdDL([a|X]-X, [b|Y]-Y, Z-[]).

 $([a|X]-X, [b|Y]-Y, Z-[])$ $L = Z = [a|X]$ $M = X = [b|Y]$ $N = [] \text{ or } Y$ $X = M = [b|Y]$ $Y = N = []$ $Z = L = [a|X] \rightarrow [a, b]$ 8 ~~$L = X$~~ $M = [b]$ $N = []$ ✓ $X = [b]$ $Y = []$ $Z = [a, b]$ ✓Lauren Sutcliffe

1. What is the result of the following query?

?- appdDL(L - M, M - N, L - N) = appdDL([a|X]-X, [b|Y]-Y, Z-[]).

 $[a|X]-[b|Y]-[]$ $[a, b]-[]$? $Z = [a, b]$ ✓ $N = []$ ✓ L ? M ? X ? Y, Z ?98

1. What is the result of the following query?

appdDL

?- appdDL(L - M, M - N, L - N) = appdDL([a|X]-X, [b|Y]-Y, Z - []).

~~appdDL([1,2]-[3,4], [3,4]-[5,6], [1,2]-[5,6])~~ is this trying to unify two functors?

appdDL([1,2]-[3,4], [3,4]-[5,6], [1,2]-[5,6])
 = appdDL([1], [3], []).

(3)

removes the tail.

1. What is the result of the following query?

?- appdDL(L - M, M - N, L - N) = appdDL(\downarrow [a|X]-X, \downarrow [b|Y]-Y, Z - []).

[a], [b],

X = 1st element, Y = 1st element, ZL = a (1st of X)~~M = X without 1st element~~M = b (1st of Y)

N = []

(a,b,c) \Rightarrow [a,a,b,c],

(4)