```
PPL - ASSIGNMENT 5
                                                                                                    4 pon
. (append $ Ist Ista cont) = (cont (append Ist Ista)) : Propon, cont
  בובחבי הפרוצבות בא בחשם ביא בקורטיבית, שכן בהוכחה תביה באינבוקציה על אורב הרשיעה בראאונה, נסמנו ב-א.
                                                                                   M=0 -937191109 0.00
                                                        a-e[(append$ [] Ista cont)] => + a-e[(cont Ista)]
                                                        a-e[cont (append [] Ista))] = a-e[(cont Ista)]
                                              פנחת באינפוקציפ- בשורב את היימת לפור כשינה ושבו באורב או כלומר:
                                                     (append 1 1st1 1st2 cont) = (cont (append 1st1 1st2))
                                                  מאר באוב וביח את באנה אבור כאונה ואל ואבו באוב חיבו אות אות באור באונה אות באל
                                                       a-e[(append $ lst1 lst2 cont)] >-
                  M priles (cdr 1541) 120, n+1 priles 1613 1561 Q-e [(append $ (cdr 1541) 1562 cont)] =
                  שבי באויון מתק"ם שבי בנחת באינפוקבים.
                                                       a-e [(cont (append ((cdr lst1) lst 2))] => *
                                                       a-e [ (cont (cons(car Ist1) (append (cdr Ist1) Ista))]
                                                       Q-e[(cont (append 1st1 1st2))] =>+
                                                       a-e [(cont (cons(car 1st1) (append (cdr 1st1) 1sta))]
                                                (define append$
           (lambda (x y c)
            (if (empty? x)
                 (c y)
                 (append$ (cdr x) y (lambda (res) (c (cons (car x) res)))
```

Instialization: S= 15

A= 2(S(S), G, S, P, 2(K), S) , B= 2(S(G), G, S, P, 2(K), U).

We'll look from left to right and look for a difference between A and B.

The first difference is s(s) and s(g), so:

5=5-16=55=16=55.

 $Now - A = \ell(s(s), s, s, p, \ell(k), s)$, $B = \ell(s(s), s, s, p, \ell(k), 0)$.

We'll look from left to right for the next difference.

The next difference is s and U, so:

\$=\$0{\$=US={S=GS0{S=US={S=G, S=US

We'll look from left to right for the next difference.

 $No\omega + A = \ell(s(s), s, s, P, \ell(k), s)$, $B = \ell(s(s), s, s, P, \ell(k), s)$.

Now we can see that A=B.

The result is: s={s=6, s=05.

2. unify[g(1,M,g,G,U,g,v(M)), g(1,v(U),g,v(M),v(G),g,v(M))]

Instalization: 5=15

A= 9(1,M,9,G,U,9,V(M)), B=(1,V(U),9,V(M),V(G),9,V(M)).

We'll look from left to right and look for a difference between A and B.

The first difference is M and V(u), so:

S= S= \ M = V(U) \ = \ M = V(U) \.

 $N_0\omega - A = g(1, V(U), g_0G, U, g, V(V(U))), B = (1, V(U), g, V(V(U)), V(G), g, V(V(U))).$

We'll look from left to right for the next difference.

The next difference is G and V(V(U)), so:

S=S-ZG=V(V(U))S=ZM=V(U),ZG=V(V(U))S.

We'll look from left to right for the next difference.

 $N_0\omega - A = 9(1, V(U), 9, V(V(U)), 0, 9, V(V(U))), B = (1, V(U), 9, V(V(U)), V(V(V(U)), 9, V(V(U)))$

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