

$f(a) \in \mathbb{S}$

$f(5/0)$

( )

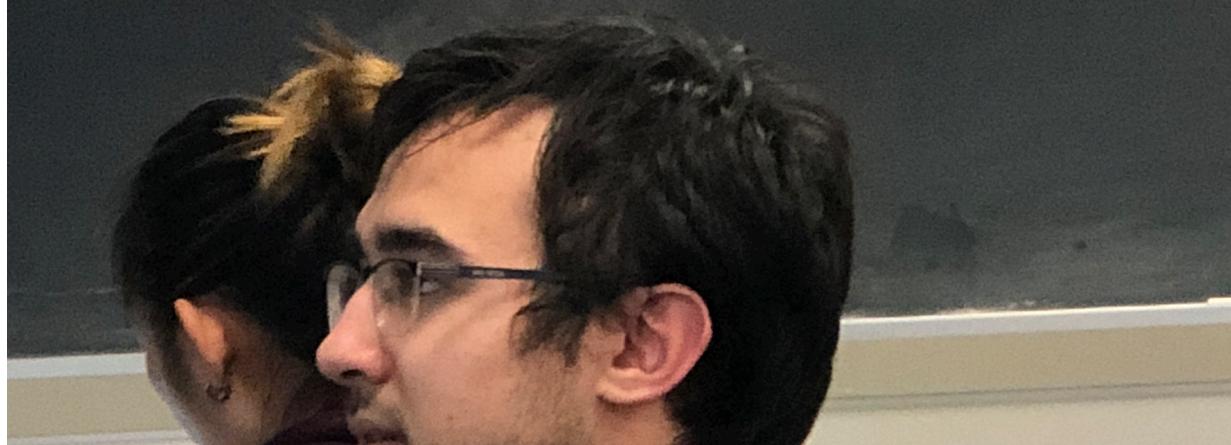
Only works call by need and call by name

Something that only fails in call by name:

global  $c = 0$   
 $b(a)$  {  
  if ( $c == 2$ ) {  
    infinite loop  
  }

$f()$  {  
   $c++$   
}

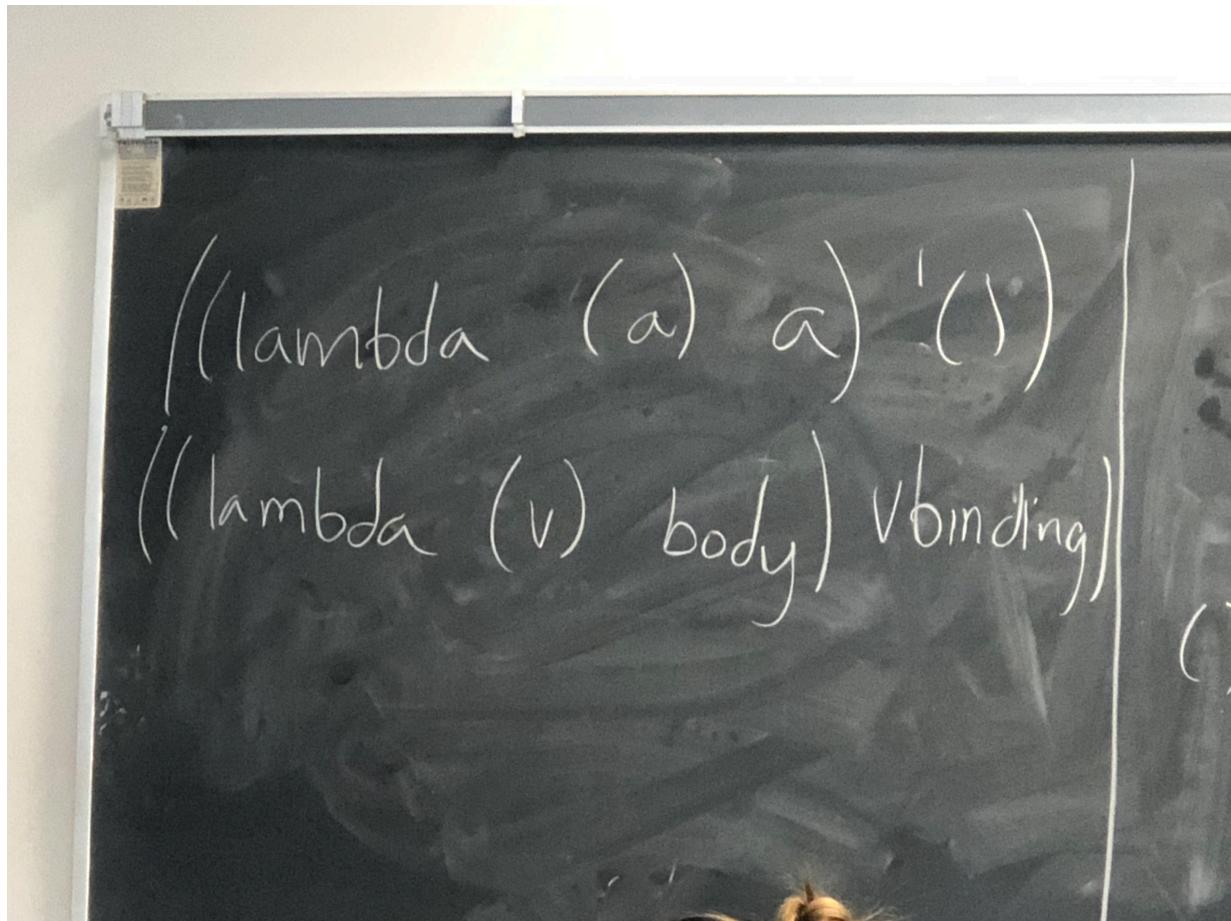
$b(f())$



only fails in call by name because call by name reevaluates something every single time the value is used in the function, but not evaluated before the argument is being passed.

ANDs and ORs are only guaranteed order of evaluation: short circuiting left to right

Other statements don't necessarily have order of evaluation enforced, side effects don't happen in order and all might not happen



Why "let" is valid in scheme