ICS 410: <u>Programming Languages</u> (062)	Section: 02
Date: 21 st April 2007 Quiz #3	Time: 20 Minutes
Name:	ID#:
Question 1:	
Explain what is wrong with the Prolog statement K is K+1?	(3 points)
Question 2: What is the relation between resolution and unification in Prolog?	(4 points)
Question 3:	
Consider the following Prolog predicates:	(4 points)
aux([],L,L).	
aux([H L1],L2,[H L3]) :- aux(L1,L2, L3).	
guess([], []). guess([X Y], Ans) :- guess(Y,Z), aux(Z, [X], Ans).	
<i>a)</i> What does the predicate guess do?	
 b) Show the result of the following Prolog goal ?- guess([1,7,9,6], Ans). 	

Question 4:

Write a Prolog functor **last** that returns the last element of a given list. (4 points)