COMP1007/A Haskell Class Test 9 am 10 December 2013

Name:								
Student ID:								
	ing functions pay attention to any instructions and always give the type of the func- nay not use library functions apart from the fold functions, map and filter unless o do so.							
1. How will GHCi evaluate take 5 [1,5]?								
2. Explain what is a <i>type variable</i> and how is it used.								

3. Define the *variant* of a function.

4.	Write your own version of the library function zip, that zips up two lists into a list of tuples, using list comprehension style.
	Write your own version of the library function filter, that uses a predicate to select the list of items in a given list that satisfy the predicate, using recursive function style.

and call them length1 and length2.

6. Write the library function length, that returns the length of a list, in two different styles

7.	7. Write two properties that can be used to test length1 and length2 using QuickCheck.									
8.	3. Write a function called capitalised, that takes a word and returns the word capitalised, using the library functions toUpper and toLower.									

9. Write a function called name that reads in a word then displays it on the screen capitalised.

Write a fun distribution	ction ispd that t	ests whether	a list of float	ting point n	umbers is a p	probabili
ability value	order functions to e for a probability eturns an error me	distribution				