Quiz 2

Name:	

Question 1. For each of the following expressions, show the resulting value and type, given the assignments for L, S, and x:

L = ["Econ", "CS", "Art", "Bio", "Hist", "Ling"]
S = "bow ties are cool"
x = 42

		Value	Type
(a).	x>0 and x<100		
(b).	x<0 or x>100		
(c).	range(len(L))		
(d).	"bio" in L		
(e).	len(S)		
(f).	L[0] * 2		
(g).	L[2] + S[8:]		

Question 2. Write a program that asks the user for a phrase and then prints out half the phrase horizontally on one line, and the other half vertically. Here's an example of the running program (user input in **bold**):

phrase: we love comp sci!

we love

с 0

m

p

s c

i

Question 3. Trace through the following program and show it's output (what would be printed on the screen).

```
phrase = "ABCDE"
for i in range(len(phrase) - 1):
   output = phrase[:i] + phrase[i+1] + phrase[i] + phrase[i+2:]
   print("%2d: %s" % (i,output))
```

Question 4. Password Strength Checker: given the assignments below for alph, nums, and pw, write some python code to either print OK or not OK, depending on what the user enters for a password. If the entered password is at least 8 characters in length and contains at least one lowercase letter and one number (0-9), it is considered OK. For example, c5rocks! is OK, but csrocks! is not OK (no digit in the password).

```
alph = "abcdefghijklmnopqrstuvwxyz"
nums = "0123456789"
pw = raw_input("new password: ")
```