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Homework 3 – Due: Monday, October 1

Please turn in answers to the following questions on Monday, in class.

- In the following table, the value `alice` is used to produce the value of `bob` using an assignment making use of indexing. Fill in the blanks.

	value of <code>alice</code>	value of <code>bob</code>	Assignment
e.g.	"Hello, world"	"Hello"	<code>bob = alice[0:5]</code>
a.	"Williams"	"W"	<code>bob =</code>
b.	"Amherst"	"her"	<code>bob =</code>
c.	"Ephriam"		<code>bob = alice[-3:]</code>
d.	"piff poof paff"		<code>bob = alice[10:30]</code>
e.	"ornation"	"onto"	<code>bob =</code>
f.	"chainlet"	"hilt"	<code>bob =</code>
g.	"tinker"	"reknit"	<code>bob =</code>
h.	"approach"	"harp"	<code>bob =</code>
i.	"blueness"	"snub"	<code>bob =</code>
j.		"python"	<code>bob = alice[:3]+alice[3:]</code>

2. Rewrite the following expressions in a simpler or more elegant way (to the right of the code):

(a) `# assume l is a list and x is an object  
l += [ x ]`

(b) `# assume u and v are strings  
s = ""  
for c in u:  
 s = s + c  
  
for c in v:  
 s += c`

(c) `def nstars(n):  
 """Returns a string of n stars.""" # (Hint: multiplication)  
 assert n >= 0  
 s = ""  
 for i in range(n):  
 s += "*"   
 return s`

(d) `# assume a and b are boolean values  
result = True if (a or b) else False`

(e) `# assume vowel is an integer from 0 to 4  
if vowel == 0:  
 c = 'a'  
elif vowel == 1:  
 c = 'e'  
elif vowel == 2:  
 c = 'i'  
elif vowel == 3:  
 c = 'o'  
else:  
 c = 'u'`