# Chapter 12

## True or False

1. When subscripts are used to specify character positions in a string, the first character’s subscript is 0.

True

2. When subscripts are used to specify character positions in a string, the last character’s subscript is the same as the string’s length.

False

3. If the String variable str contains the string “Might”, then the statement Set str[5] = “y” will change its contents to “Mighty”.

False

4. The insert library module automatically expands the size of the string to accommodate the inserted characters.

True

5. The delete library module does not actually remove characters from a string, but replaces them with spaces.

False

6. The isUpper library function converts a character to uppercase, and the isLower library function converts a character to lowercase.

False

7. An error will occur if you use a subscript on an empty String variable.

True

## Short Answer

3. If the following pseudocode were an actual program, what would it display?

Declare String str = "Yada yada yada"  
delete(str, 4, 9)  
Display str

Yadayada

4. If the following pseudocode were an actual program, what would it display?

Declare String str = "AaBbCcDd"  
Declare Integer index  
For Index = 0 To length(str) – 1  
 If isLower(str[index]) Then  
 Set str[index] = "–"  
 End If  
End For  
Display str

A-B-C-D-

5. If the following pseudocode were an actual program, what would it display?

Declare String str = "AaBbCcDd"  
delete(str, 0, 0)   
delete(str, 3, 3) aBbCcDd  
delete(str, 3, 3) aBCcDd  
Display str

aBcDd

## Algorithm Workbench #3

Design an algorithm that counts the number of uppercase characters that appear in the String variable str.

declare int count = 0, index = 0; For index to length(str) -1 if isUpper( str[index] then set count = count + 1 end if End For rettrun count