**Questions**

1. What is the initial capacity of the following string buffer?

StringBuffer sb = new StringBuffer("Able was I ere I saw Elba.");

1. Consider the following string:

String hannah = "Did Hannah see bees? Hannah did.";

* 1. What is the value displayed by the expression hannah.length()?
  2. What is the value returned by the method call hannah.charAt(12)?
  3. Write an expression that refers to the letter b in the string referred to by hannah.

1. How long is the string returned by the following expression? What is the string?

"Was it a car or a cat I saw?".substring(9, 12)

1. In the following program, called ComputeResult, what is the value of result after each numbered line executes?

public class ComputeResult {

public static void main(String[] args) {

String original = "software";

StringBuffer result = new StringBuffer("hi");

int index = original.indexOf('a');

/\*1\*/ result.setCharAt(0, original.charAt(0));

/\*2\*/ result.setCharAt(1, original.charAt(original.length()-1));

/\*3\*/ result.insert(1, original.charAt(4));

/\*4\*/ result.append(original.substring(1,4));

/\*5\*/ result.insert(3, (original.substring(index, index+2) + " "));

System.out.println(result);

}

}

**Exercises**

1. Show two ways to concatenate the following two strings together to get the string "Hi, mom.":
2. String hi = "Hi, ";
3. String mom = "mom.";
4. Write a program that computes your initials from your full name and displays them.
5. An anagram is a word or a phrase made by transposing the letters of another word or phrase; for example, "parliament" is an anagram of "partial men," and "software" is an anagram of "swear oft." Write a program that figures out whether one string is an anagram of another string. The program should ignore white space and punctuation.