CIS 121 - Quiz 11 - Wednesday, April 16, 2003

Name: ___________________________________________ Student Number: __________________________

1. (2 pts) Suppose we have a Vector called v and we place an element in the Vector with the line
v.addElement(“Hello”);

Will there be a syntax error if the following line is in the same program? Explain.
String s = v.elementAt(i);

2. (2 pts) If we create a Vector using its no-argument constructor, then a Vector is created with an initial capacity of ________________ and if we run out of space, the capacity of the Vector is ________________.

3. (2 pts) A Stack is known as a ________________ data structure since the first element placed on the stack will be the last one taken off, and a queue is known as a ________________ data structure since the last element placed in the queue will be the last one taken out of the queue.

4. (2 pts) A ________________ is a class definition which contains an instance variable whose type is the class.

5. (2 pts) Suppose there is a class definition for a Stack that provides the methods push(Object o), pop(), peek(), and isEmpty(). Write an if statement that will place the String “What’s your problem?” onto the stack only if the stack is not empty and the element at the top of the stack has the String representation “Hello Deli”. Assume that the Stack is named stack.