CIS 120 - Quiz 12 - Friday, November 14, 2003

Name: ________________________________ J Number: __________________________

1. (2 pts) Suppose we have an array named numbers. The first element in numbers is located at position __________________, and the last element of the array is at position __________________.

2. (2 pts) Suppose we have an int array named numbers with 5 elements. We wish to change numbers so that it refers to a new array which has 7 elements where the first element in the new array is the last element of the original array referred to by numbers, and the last element of the new array is the first element of the original array referred to by numbers. Show lines of code which will make this happen.

3. (2 pts) In order to place components like JButtons onto an applet, we obtain a reference to the __________________ of the applet, and to redraw the applet, we call the method __________________ which is a request to the context of the applet to call the applet’s paint method as soon as possible.

4. (2 pts) In order to inform the context of the applet that it should not use a layout manager, but instead we will specify the size and location of any components that we add, we use the code

setLayout(__________________________), and whenever all references to an object are lost, we call that object __________________.

5. (2 pts) Suppose within an applet’s class definition you want to create a JButton named button labeled “Help Me”, whose width is 1/8 of the width of the applet, whose height is the larger of the 5 and 1/20 of the height of the applet, and whose location is so that the JButton is centered both vertically and horizontally in the applet’s window. Show the lines of code you would use to create this JButton. You may use as many lines as you need.