Quiz: Array basics

1. Consider the following array:
   ```java
   int[] list = { 4, 3, 2, 0, -1 };
   ```
   
   A. (5 points) What is the value of x after the following line of code executes?
   ```java
   x = list.length;
   ```
   
   B. (5 points) What is the value of x after the following line of code executes?
   ```java
   x = list[1] + list[4];
   ```
   
   C. (15 points) Draw the array after the following loop is executed:
   ```java
   for (int i = 0; i < list.length - 1; i++) {
       list[i] -= list[i + 1];
   }
   ```
   
   Answer: { , , , , , }

2. (25 points) Fill in the blanks in the following code segment to make a function that will return the element of the given array with the highest value (find the max).

   ```java
   public static int findMax() {
       int[] a = {5, 9, 0, 12, 7, 11};
       int max = a[0];
       for (int i = ________; __________; i++) {
           if (__________) {
               __________ = __________;
           }
       }
       return max;
   }
   ```