Name: ___________________________ Key ___________________________

1. Write Java syntax to declare, create, and initialize an array of 16 double values:
   ```java
double[] arr = new double[16];
```

2. Write Java syntax to double the middle element on an array called `values` (you can assume
   the array has an odd number of elements):
   ```java
   values[values.length/2] *= 2;
   ```

3. A Java String is similar to an array of __char__. 

4. Write Java code to copy an array of integers `a1` to a new array. Assume that `a1` is already
   created and initialized. Start your program by creating the second array of proper size. You
   should not write a full Java class or main method, just the snippet needed to copy the values.
   ```java
   int[] a2 = new int[a1.length];
   for(int i = 0; i < a1.length; ++i)
     a2[i] = a1[i];
   ```

5. **Bonus.** Describe how an array of arrays is laid out in memory.
   
   An array of arrays is a single pointer to an array of pointers. The points in the array each
   point to memory location storing the actual elements.