Start with the program that’s in this folder. It is set up to get input from the keyboard. Also refer to the demo from class, and the notes that were given to do the following.

1. Declare and instantiate an array of 20 int values (you can make up the name of the array).
2. Load the array with 20 random integers using a **for** loop. Each of the 20 integers should be in the range of 101 to 200 exactly.
3. Now, using a **second for loop** (don't put this in the first loop), print the numbers horizontally across the screen so that it looks like the first line of the output below.
4. Now, using a **third loop**, print the numbers backwards across the screen so that it looks like second line of the output below. There are two approaches you can use: (1) make the **for** loop start high and step in reverse order (I think this is the easier approach), or (2) leave the for loop counting forwards, but change the way you use the loop counter variable to index the array.
5. Now add a **fourth loop** to find and print the numbers that are larger than a particular value as follows:
   1. Before the fourth loop, ask the user to enter a number at the keyboard.
   2. In the loop determine which numbers in the array are larger than the user’s number and print them out horizontally so that it looks like the output below.
6. Now add a **fifth loop** that calculates and prints the following so that it looks like the output below:
   1. The sum of the numbers.
   2. The average of the numbers (with decimal places).
   3. The minimum number in the array.
   4. The maximum number in the array.

