“The laboratory and the X-ray have added much that is valuable to our knowledge of diagnosis, but in this change of tactics the average doctor has lost much … basic skill. Thirty years ago, we had to depend upon our sense of touch, sight, and hearing to make a diagnosis, and experience developed alertness that is not completely replaced by routine laboratory reports …”

Dr. Sara Josephine Baker
Assistant Surgeon General of the United States of America
http://4kyws.ua.edu/BAKER.html
More array problems

- write a method to change an array to a sub-array, similar to substring method
- "rotate" elements in an array a given amount
- determine how many elements in an array of Strings variables are set to null
- determine if the elements in an array of ints or doubles are in sorted ascending order
- Determine which character occurs most frequently in a file
More array problems

- shuffle an array
- determine the longest run length in an array of booleans (longest run of all booleans the same)
- ensure all elements in an array are within a given range
- given an array with ints 1 to N determine if there are any duplicates in the array
More array problems

- given an array, create and return an array the same as the original except all duplicates are removed
- implement the sieve of Eratosthenes to find prime numbers
- We'll say that an element in an array is "alone" if there are values before and after it, and those values are different from it. Return a version of the given array where every instance of the given value which is alone is replaced by whichever value to its left or right is larger. (from coding bat)