AP Computer Science Chapter 7

Mini Lab

## (1) Shift the Array Elements

Write a method called "arrayShift(int[] oldArray, int[] newArray, String Direction, int shiftNumber)", which is passed an array, x, of integers and an integer shift number of n positions in either direction. The method creates a new array with the items of x moved forward by n positions. Elements that are shifted off the array will appear at the end. For example, suppose x contains the following items in sequence:

1234567

After shifting by 3 positions in the "LEFT" direction, arrayShift(x, b, "LEFT", 3), the new array b will appear in this sequence:

4567123

After shifting by 4 positions in the "RIGHT" direction, arrayShift(x, b, "RIGHT", 4), the new array b will appear in this sequence:

4567123

Array x should be left unchanged by this method.

## (2) Palindrome

Write a program to test a sequence of numbers or characters (int is OK) from user input in the command line and check to see if this sequence of numbers form a "Palindrome" pattern or not. If it forms a "Palindrome" you should return "true", otherwise, return "false".