1044 problems on Arrays

1. Write a code using for loops to add up and average the even locations in the array int A [500].

2. a) declare 2 arrays A and B, each having 100 integers.
   b) Using for loops, write code to read data into array A, filling all 100 locations. Then fill B using the data in A so that each element in B is 10 greater than the element in A.

3. a) Declare an array A with may contain 10 integers and an array B which may contain 10 reals.
    b) Read data into A filling it. Fill B with the square roots of the corresponding elements of A.

4. Fill an array int A [100], not by reading, but with multiples of 10 beginning with 10.

5. Declare an array of 10 integers and a value X. Determine the index of the first value in the array that is greater than X and print it out. If none are greater, print -1.

6. Declare an array of 100 real values. Moves the largest value in the array to location 0 and the smallest value in the array to location 99.

7. Assume int A[200], B[200] are declared and A already is filled with data. Fill B with the data from A, but in the opposite order.

8. Determine both the minimum and maximum values in an integer array containing exactly 100 integers.

9. Assume int A [200]. Read data, filling A, until A is completely full or a negative data value is encountered. Then print out the number of items actually placed in A. (Must use while loop.)

10. Read data from a file into int Array[100] until it is full. Do Not put negative numbers in the array, only positive or zero. You can assume there are enough non-negative numbers to fill the array.

Assume int X [25] [35], Y[100][100].

11. a) Read data into X, filling it by rows.
    b) Read data into X, filling it by columns.

12. Determine the number of the row in array X whose elements sum to the largest value.

13. Add the items of the main diagonal of Y.

14. Find and print the largest array element that lies in the main diagonal of Y. Also print the indices of the largest value.