

ES 112 Algorithms and Computer Programming

2020 Spring – Homework 4 – arrays

1) (60p) Write a program which reads integers from the user and stores them in an array. Create an array of size 50 and initialize all elements to zero. The user enters positive or negative numbers (he will enter zero only to quit). While the numbers arrive, place the positive ones to the left and the negative ones to the right side of the array. Exit the input loop if either the user enters a zero or 50 numbers are already read. Then print the negative numbers on the screen.

2) (40p) An array contains 2 or 3-digit positive numbers ($9 < n < 1000$). Write a program which counts the number of numbers in this array having their leftmost digit equal to their rightmost digit (examples: 44, 66, 202, 767, 777...).

Submission information:

Submit your .c files as a single archive (rar) file: YOUR_FULLNAME_Hw4.rar.

The archive should include YOUR_FULLNAME_Q1.c, YOUR_FULLNAME_Q2.c.

Late submissions will not be accepted!

Please do your own work!