

## HW6 – Arrays

Due on Oct. 25th, 6:00pm

1. Write a program that receives 10 numbers, calculates the average of the 10 numbers, and shows the numbers that are larger than the average:

Enter 10 numbers:        3 10 13 21 30 4 7 9 5 6  
Numbers > average:     13 21 30

2. Write a program that receives a number, checks whether any of the digits repeated more than once, shows the repeated number and its occurrence. Assume that the number can have up to 100 digits. Print out the repeated digits in an ascending order:

Enter a number:        4177109442  
Repeated digit        Occurrences  
1                        2  
4                        3  
7                        2

3. Write a program that tests whether two words are anagrams (permutations of the same letters). If the two words are not anagrams, print out the letters (in alphabetical order) in the second word that does not exist in the first word. The length of a word is no longer than 20.

Enter first word:        smartest  
Enter second word:     mattress  
The words are anagrams.

Enter first word:        toffee  
Enter second word:     fleets  
The words are not anagrams.  
Missing letters: f o