

## HW9 – Pointers&Arrays

Due on Nov. 22nd, 6:00pm

1. Write a program that receives integers until it receives 0, finds the unique integers, sorts the unique integers in a descending order of the frequency, and displays the integers. The maximum number of integers it can receive is 100. If the frequency of the integers is tied, display the integers following the order that they were received:

Enter integers: 1 9 8 3 6 11 9 3 9 11 0

Output: 9 3 11 1 8 6 0

Enter integers: 3 2 1 4 7 6 5 8 9 0

Output: 3 2 1 4 7 6 5 8 9 0

Use pointers to subscript the array.

2. Write a program that reads a message, then checks whether it is a palindrome (letters in the message are the same from left to right as from right to left):

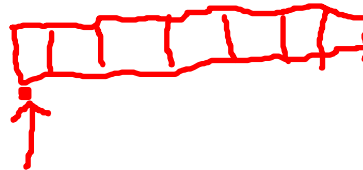
Enter a message: He lived as a devil, eh?

Palindrome

Enter a message: Madam, I am Adam.

Not a palindrome

Use pointers to subscript the array.



3. Write a program that reads a message, then prints the reversal of each word in the message:

Enter a message: Don't get mad, get even.

Reversal is: t'noD teg ,dam teg .neve

Use pointers to subscript the array.