

## CS 12 - Lab 2

### Pointers and Strings

1. Write a program that determines whether a string is a palindrome. A palindrome is a string that appears as the same string when read backwards as when forwards. For example, “mom”, “radar”, and “pop” are all palindromes. Allow the user to enter a word (less than 15 characters). Determine whether the word is a palindrome and output a message to the screen that states the results. You must use pointers for this program. You may not use the subscript operator (`[]`) except when declaring an array.
2. Write a function that takes two strings and copies the reverse of the source string into the destination string. The function prototype should look like the following:

```
void strrev(char *dest, char *source);
```

Assume that the user will input a string with a maximum size of 10 characters. When entering the function, the destination string should already have enough space allocated for it to hold the reversed string. Write a short main program to demonstrate the use of this function.

3. Write a program that asks the user how many integers they would like to input. Dynamically allocate an array of integers to store the specified number. Have the user input the values. Print each array element out on a separate line. Remember to delete the array before exiting the program.