

CSE220: SYSTEMS FUNDAMENTALS I

Assignment 4

Due on 6 Nov, by 5PM

Each program should be written and tested separately (i.e., with a distinct “main”), but all should be handed-in in a single file.

1. Write a function, *StrEnd*, that takes as its arguments a string and a character and returns a 1 if the argument character is the last non-null character in the string and returns a 0 otherwise.
2. *strncmp* is a version of *strcmp* that has an additional argument, an integer *N*, and which compares only the first *N* characters of the two argument strings.

Write two versions of *strncmp*: one that uses array indexing and one that uses only pointers.

3. Consider a function, *StrRev*, whose argument is a string and whose actions are to reverse the elements in the string.

Write two versions of *StrRev*: one that uses array indexing and one that uses only pointers.

The use of an additional array or string is not permitted.

4. Programming project 1 on page 311 in the textbook.