

CS 161, Lecture 21: Command Line and More Practice – 2 March 2018

Make it Better: Command Line Arguments

- Command line arguments allow you to take input from the user before running your program
- Array of c-style strings

Demo

C-String Functions

- Recall c-style string are null terminated
- Means we can use c-string library
- We can also make all of these by hand
- Useful
 - Strlen -> length of string up to (not including) null terminator
 - Strcpy -> copies the contents of one c-style string into another
- Get input from user using
 - cin.get() -> takes one character from the buffer at a time (leaves delimitator char in buffer)
 - cin.peek() -> looks at the next thing in the buffer with out taking it out
 - cin.getline() -> takes an entire line of determined size
 - cin.ignore() -> dumps everything in the buffer
 - cin.clear() -> resets error flag for buffer

Exercise: String Manipulation with C-style strings

- Design a program which will take a string from the user (c-style string) and remove all duplicate letters occurring in the string. You should only use the exact amount of memory you need at any given time. Your program should not take input from the user during runtime unless there is an error.
 - What functions will we need?
 - What kind of memory should we use?
 - Write the function prototypes.

Demo