

CISC105 – General Computer Science

Class 14 – 07/19/2006

Review

- Strings
 - strcpy(), strncpy() – string copy functions
 - strcat(), strncat() – string concatenation
 - strcmp(), strncmp() – string comparison
 - strlen() – string length
 - strtok() – string token
 - gets() – gets a line of data from the input
 - fgets() – gets a line of data from an input file
 - getchar() – gets the next character in the buffer
 - fgetchar() – get the next character from an input file

Character Analysis

- There are many ways to analyze characters available in the ctype.h library
- isdigit, isalpha, islower, isupper, ispunct, ispace, tolower, toupper
- [charan1.c](#) & [charan2.c](#)

Introduction to Structures

- A database is a collection of information stored on a computer.
- The smallest subdivision in a database is a record
- A structure is a data type that contains multiple components that you define!

Structures

- Direct Component Selection Operator – once you declare a structure type you can access a component by using `structure_name.component`
 - See [struct1.c](#)
- A structure can have a component that is a structure!
 - See [struct2.c](#)

Passing structures as Parameters

- You can pass structures as parameters in the same way that you pass other data types.
- See [struct3.c](#)

An Array of Structures

- You can declare and use an array of structures
- See [struct4.c](#)
