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Lecture 11 Strings



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Tests are coming 16.01 and 23.01

Know:

- Everything from the first test
- Pointers and addresses
- · Passing data to and from functions with pointers
- Static and dynamically allocated 1 and 2D arrays
- Arrays and functions
- File I/O operations
- Operations on strings
- Structures (next lecture)

Have:

- A Pen
- Student ID

Do not have:

- Notes
- Any electronic devices



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char, char* and char[] 16.01 and 23.01

- Write a program illustrating all the characters some we shell not see
- Find the special character, we will need it later
- Write a program that uses an array of characters to store a word or a sentence
- Store something in an array, try %s to print the content
- Use the special character, it is a termination sign



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String is an array of char with a special, terminating character added at the end

- Innitialize a string in a more convenient manner
- How much space does a string occupies?
- What is the last character?
- Do I need to provide the size if an array is static?
- What is a difference in using char[] and char*?
- Why can't we reassign some strings?



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Reading strings from keybord scanf?

- Write a program reading a string from a keyboard
- Can we do better?
- char *fgets (char *str, int size, FILE* file);
- We can also read from file!



WARSAW UNIVERSITY OF TECHNOLOGY Manipulating null terminating strings string.h

- Comparison: int strcmp (const char *s1, const char *s2); Returns 0 if s1 and s2 are the same; less than 0 if s1_js2; greater than 0 if s1_js2.
- String concatenate: char *strcat (char *dest, const char *src);
- Copy: char *strcpy (char *dest, const char *src);
- Length of a string: int strlen (const char *s);
- char* strchr(s1, ch); Returns a pointer to the first occurrence of character ch in string s1.
- char* strstr(s1, s2); Returns a pointer to the first occurrence of string s2 in string s1.