Day 6 (Fri 02/04) · Exercise 5 review · Day 6 recep Qs · Day 6 topics - file I/o - assert - math functions · Exercise 6

Slido, com jhu intprogram zero

Execise 5 review

Count 1.

iterate backward through original string in loop body

- -translate base
- store translated base in destination string

NUL-terminate destination string

Themes:

- -strings must be NUL ('10') terminated
- · a char array must have room to store all of the characters in the string PLUS the NUL terminator
- · using a char array that is larger than necessary is fine
- · as array element access using an integer index to access individual characters Ce.g. s[i] where s is the character array & i is the index of a character)

Exercise 5 review (continued)

count 2.c

- . iterate through characters in string
- · use int variables as counters
- · for each character, classify using isalpha, is digit, isspace functions

if (isalpha(c)) {
num_alpha ++;

3 else if (isdigit(c)) {
num-digit++;

} else if (isspace(c)) {
num_space++;

if/else if blocks are useful for making decisions about mutually-exclusive possibilities

Exercise 5 review (continued)

count 3.c

char values are just integers! (In range 0-127 for ASCII characters.) So:

int ascii-count [256] = {0}; //initializes every count to 0

Ta character from the string being analyzed

ascii-count[c]++;

Day 6 recap questions

- 1. Is fprintf(stdout, "xxx") the same as printf("xxx")?
- 2. When should we use assertions instead of an if statement?
- 3. What will happen if you pass an int variable to a function that takes a double as its parameter? What will happen if a double is passed to an int parameter?
- 4. What is "pass by value"?
- 5. How do you change the main function so that it can accept command-line arguments?