

Day 6 (Fri 02/04)

- Exercise 5 review
- Day 6 recap Qs
- Day 6 topics
 - file I/O
 - assert
 - math functions

Slido.com
jhu int prog 01
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 zero

Exercise 5 review

count1.c

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 ('\0') 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 (e.g. `s[i]` where `s` is the char array & `i` is the index of a character)

Exercise 5 review (continued)

count2.c

- iterate through characters in string
- use int variables as counters
- for each character, classify using `isalpha`, `isdigit`, `isspace` functions

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

