Midterm Review & More

Lecture 10 Feb 16th 2023 | COMP 211-002 | Joshua Bakita

Welcome!

Today:

- → Midterm Review
- → More on Preprocessor

Logistics:

- Scores for Midterm 1, and Assignment 1 Style are up
- → Let us know if mistakes are in the readings. Ex: the online copy of *Computer Systems...* has different section numbering
- → Assignment 3 coming soon



Write-In

THEODORE NOLLERT

for Student Body President

Remember to vote!

Early voting: Sat & Sun, Feb 17-18

> General Voting: Thurs, Feb 21

qo.unc.edu/theo



Fun fact...

Great job!

Statistics

Raw Scores:

→ Best: 25.7/26 (99%)

→ Worst: 10.3/26 (40%)

→ Avg (mean): 22/26 (86%)

Top incorrect questions:

1. Q. 1.3.2 (79%)

2. Q. 1.1.5 (57%)

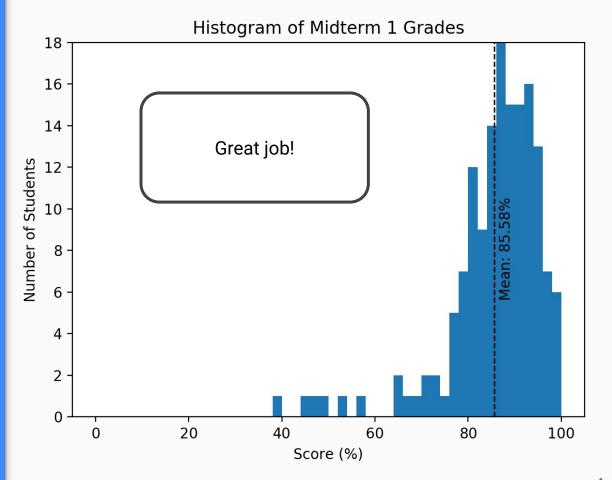
3. Q. 1.1.12 (54%)

4. Q. 1.1.1 (47%)

5. Q. 1.1.7 (33%)

6. Q. 1.1.9 (29%)

7. Q. 1.3.5 (28%)



Q.1.1.1: "warning: implicit declaration of function"

Code available at https://www.cs.unc.edu/~jbakita/teach/comp211-s23/l10/q1_demo.c

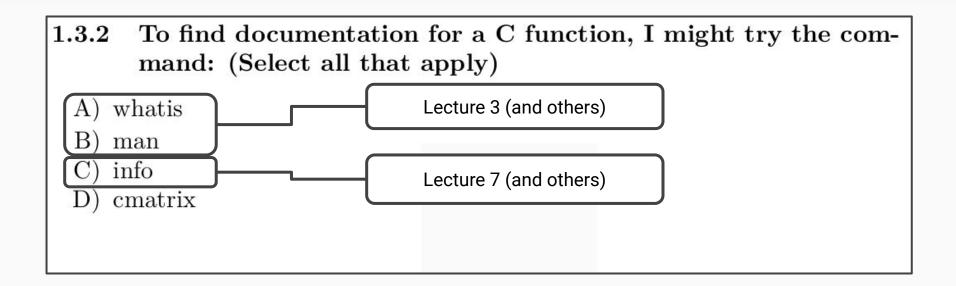
Q. 1.1.5: string termination

Code available at https://www.cs.unc.edu/~jbakita/teach/comp211-s23/l10/q5_demo.c

Q. 1.1.12: define FALSE as the value 0

Code available at https://www.cs.unc.edu/~jbakita/teach/comp211-s23/l10/q12_demo.c

Question 1.3.2



More on the Preprocessor

Beyond #define and #include. Picking up from last time...

This section of the slides was not covered in-class, but the midterm question demos sufficiently covered the preprocessor. These examples have been cut from future lectures, but are left here for your study.

```
#define NV_PCCSR_CHANNEL_INST(i) (0x00800000+(i)*8)
// 0:31
»···»···enum INST TARGET inst target:2;
»···»··· uint32_t pa
»···»···bool inst bi
                                           Code available at
// 32:64
                      https://www.cs.unc.edu/~jbakita/teach/comp211-s23/l6/nvdebug.h
More on the Preprocessor
                                       nvdebug.h: More Complex #define
```

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»···CHANNEL_STATUS_ON_ENG_PENDING_ACQUIRE = 8,

```
#define NV_RL_ENTRY_SIZE(g) \
       ((g)->chip_id >= NV_CHIP_ID_VOLTA ? sizeof(struct gv100_runlist_tsg) : \
                                         sizeof(struct gk110_runlist_tsg))
»···// Pointer to either
                                                Code available at
»···// This should be se
                         https://www.cs.unc.edu/~jbakita/teach/comp211-s23/l6/nvdebug.h
»···// decremented as ea
                                           nvdebug.h: More Complex #define
 More on the Preprocessor
```

Questions?

See office hour calendar on the website for availability.

Assignment 3 will be posted by next class.

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