

Please take a seat with some space in between you and the next person. Put everything away except for a writing utensil.

161-01

Functions

September 18, 2024

Agenda

0. Quiz

1. Announcements

2. Problem B from Friday's lab

3. Discussion

4. Lab

Quiz

Please put everything away
except for a writing utensil.



Announcements

Lab Report 2

- Was due before class.
- If you forgot to submit it, you're still able to in Gradescope.

Homework 2

- Due this evening

Homework 3

- Out today
- Due next Monday

Token Events?

Friday lab

```
#include <stdio.h>
#define maxSize 100

/* reverse.c
 *
 * problem B from the arrays lab
 * reading in characters from the terminal
 */

int main(void)
{
    int i;
    char ch;
    char s[maxSize];

    /* Version 1 - uses a for loop */
    for(i = 0; i < maxSize; i++){
        ch = getchar();
        if(ch == '\n')
            break;
        s[i] = ch;
    }

    /* Version 2 - uses a while loop */
    i = 0;
    while (i < maxSize && (ch = getchar()) != '\n'){
        s[i] = ch;
        i++;
    }

    return 0;
}
```

Which version is preferred?



Discussion

Functions

1. What is the purpose of a function prototype, such as:

```
double average(double a, double b);
```

2. Describe any special rules around using arrays in functions.



Discussion

Functions


3. Which part of the code corresponds to each of the following terms?

declarations
statements
function-name
return-type
parameters

```
double average(double a, double b){  
    double avg;  
    avg = (a+b)/2;  
    return avg;  
}
```



Other questions
about the reading?

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Lab



Wrap up



For next time:

- Reading is posted on the webpage
- Start Homework 3
- Friday's lab is shorter, so you will have time to continue this lab