

# DISCUSSION \#1 

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Dept. of Computer Science
Monday, Sept. i2th, 202 I


## WELCOME TO <br> TODAY'S CLASS! <br> TODAY'S AGENDA

Intro/Logistics/Updates (about 2-3 min)
Assignment \#2 Questions (5-10 min) oz

Participation Quiz \#1 (25 min)

Solution/Walk-through (10 min)

Belonging in CS, a brief discussion (5-10 min) os

## INTRO/LOGISTICS / UPDATES

- TA Introduction: (name, where I'm from, and one fun fact)
- Acknowledgement: Outstanding job on your designs and code for assignment \#!
- Office hours schedule: Can be found on Piazza post @22
- Discussion slides: Can be downloaded at https://cs.utexas.edu/~omeed
- Mental Health and Wellness: a brief statement
- Assignment \#2 - Please start if you haven't already. This is a fun assignment!


## ASSIGNMENT QUESTIONS?

## SOME TIPS (credits to former TA, Santiago Moreno):

- Variable names for your for-loops should be descriptive, not just one letter:

```
for (int rowNum = 0; rowNum < NUM ROWS; rowNum++) {
}
```

- Have spaces between your mathematical operators, not all bunched together:

```
int fahrenheitGood = ((celsius * 9) / 5) + 32; // good!
int fahrenheitBad = ((celsius*9)/5)+32; // bad!
```

- Design first! Structural decomposition is important. Break things down into components!
- Give it a descriptive variable name and use the appropriate constant type!
- Class constant vs. method constant scope.
- Multiple println()'s to construct the tower is not sufficient.
- This is a fantastic source for referencing when you are coding: https://www.cs.utexas.edu/~scottm/cs3ı2/handouts/IntroJavaStyleGuide.pdf
- Comments should now extend to for loops, this will help you debug later.

What do you think the pattern is? The trick is integer division.

```
\(8 / 2\) is 4
I/2 is o
2/2 is I
3/2 is I
4/2 is 2
5/2 is 2
6/2 is 3
7/2 is 3
9/2 is 4
10/2 is 5
```


## PARTICIPATION QUIZ \#1

Instructions:

- Please navigate to Canvas => Assignments => Participation Quiz I
- Read instructions thoroughly and press to view PDF.
- Typing is permissible. Writing is encouraged. We don't care about the format as long as we can read it.
- Upload to Canvas before the deadline, preferably in class.
- DUE DATE: Available until Sep I4 at 11:59 pm.
- GeniusScan, AdobeScan, etc. Image, PDF or screenshot is great!
- There is NO guarantee we can open proprietary note app files (e.g. EverNote, Notability, etc)! This means you could get a o.
- You will have 20-25 minutes before we move on. Good luck!



## Solution/Walk-through

```
public class MyClass {
    public static void main(String args[]) {
        operaHouse(4);
    }
5
6. public static void operaHouse(int size){
        int numLines = size + 2;
        int numSpaces = size + 1;
        for (int line = 1; line <= numLines; line++){
            for(int space = 1; space <= numSpaces; space++){
                    System.out.print(" ");
            }
            for(int paren = 1; paren <= line; paren++){
            System.out.print("(");
            }
            for(int space = 1; space <= numSpaces; space++){
                System.out.print(" ");
            }
            for(int paren = 1; paren <= line; paren++){
                System.out.print("(");
            }
            numSpaces--;
            System.out.println();
            }
    }
}
```



## Belonging in CS

## Thank you so much! <br> Have a fantastic day. I am looking forward to a great semester.

CONTACTING ME: omeed@cs.utexas.edu

Please do not be afraid to reach out! Private meeting scheduling, personal inquiries, and other things are preferred for email. Please use CS312 in addition to a descriptive subject line.

