Lab 0

Due Monday, February 5 by 10:00pm

Handout 3
CSCI 334: Spring 2024

Turn-In Instructions

This is a warm-up assignment designed to familiarize you with your computer's programming environment and the course `git` server. It will be graded on a pass-fail basis: if you turn it in, it is complete, and the coding part of the assignment runs, you pass.

Turn in your work using the `git` repository assigned to you. The name of the `git` repository will have the form `https://aslan.barowy.net/cs334-s24/cs334-lab00-<USERNAME>.git`. For example, if your CS username is `abc1`, the repository would be `https://aslan.barowy.net/cs334-s24/cs334-lab00-abc1.git`.

You should have received an invite to commit to the repository via email. If you did not receive an email, please contact me right away!

Group Programming Assignment

This is a partner lab. You may work with another classmate if you wish, and you may co-develop solutions. Remember: although you can work on code together, you must each independently write up and submit your solution. No code copying is allowed. Tell me who your partner is by committing a `collaborators.txt` file to your repository. **Be sure to commit this file whether you worked with a partner or not.** If you worked by yourself, `collaborators.txt` should contain something like "I worked by myself." (5 points)

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Sanity Check

Students sometimes submit incomplete assignments, accidentally forgetting to run `git add` for all of their files. Fortunately, there is an easy way to make sure that this does not happen to you. Before you are done, `git clone` your repository to a new folder and then try building/running everything. It only takes a couple minutes and can spare you from headaches later on.

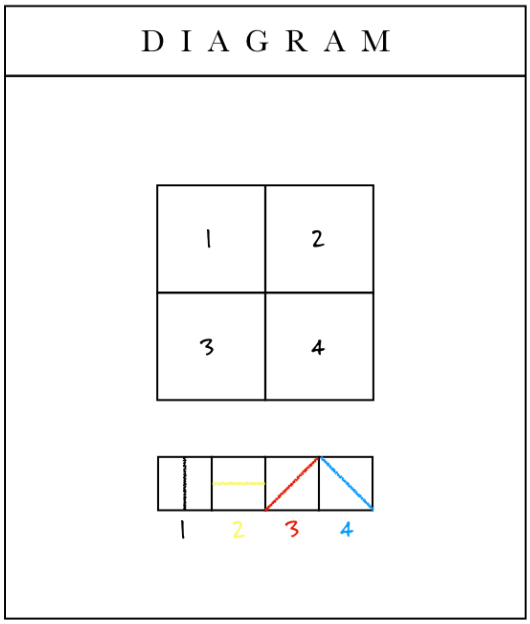
Reading

1. **(Required)** "A Brief Introduction to F#"
2. **(Required)** "Beating the Averages"

Problems

Q1. (45 points) ..... Is this a program?

Run the following "program."




```
A square divided horizontally and vertically
into four equal parts, each with a different
color and line direction.

Red, yellow, blue, black pencil
```

Take a photo of the result with your phone and add it to your submission. **Put your solution in a directory named "`q1`"**. Be sure to name the image file `lewitt.png` (or `lewitt.jpg`, etc).

Q2. (50 points) ..... Hello Favorite Band

Write an F# program that prints your name and your current favorite music act/band. For example, my program would print:

```
Dan Barowy
Underworld
```

One should be able to run your program on the command line like so.

```
$ dotnet run
Dan Barowy
Underworld
```

Remember that F# always expects your `main` function to return an `int`, so your program should probably return zero.

Put your solution in a directory named "`q2`". Be sure to name the program file `Program.fs`.