Lab 6: IDEs

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Introduction

This lab will give you some experience configuring and using IDEs. The starter code is available in a git repository (check your email for the link). You can get the git repository with git clone.

Problem $\sqrt{-1}$: Clean Up After Yourself

The repository for this lab does not include a .gitignore file. As you work through this lab, you should create one that ignores the junk you don't want in a git repo: compiled files, editor backup files, etc. Use git status to see what sorts of files Geany and Code::Blocks create.

Note: you do want to include the project files you create in your repository.

Problem 1: Geany

- 1. Create a project for the assignment.
- 2. Import the existing files into the project.
- 3. Build and run the code. (Remember, you need to tweak the build settings to work correctly.)
- 4. Implement the **combination** function in **funcs.cpp**. The combination operator, most commonly known as part of the Binomial Theorem but also widely useful in statistics and combinatorics, is defined by the following operation:

$$\binom{n}{m} = \frac{n!}{m!(n-m)!}$$

The combination operator is also used to generate Pascal's Triangle, which is what we will be doing in this assignment.

5. It'd probably be good to write a bit of code in **main** to make sure your function works.

- 6. git add your Geany project file and your changes to funcs.cpp and main.cpp.
- 7. git commit your changes.

Problem 2: Code::Blocks

- 1. Create a project for the assignment.
- 2. Import the existing files into the project.
- 3. Build and run the code. (Don't forget to turn on -Wall !)
- 4. Use the TrianglePrinter class to print out the first 7 rows of Pascal's Triangle. add will add a number to the current row and newrow will start a new row.
 - The first row of Pascal's triangle is $\binom{0}{0}$. The second row is $\binom{1}{0}$, $\binom{1}{1}$, and so on and so forth.
- 5. git add your Code::Blocks project file and your changes to main.cpp .
- 6. git commit your changes.

Epilogue

git push your committed changes to gitlab so that I can grade them.