

# Competition Programming Challenges

Preparation for the Intercollegiate Programming Competition

# Tips

- Read the sample inputs and output tables first to try to figure out what is required.
- Don't read all text from the problem.
- Make comments in your code about steps to be taken to solve the problem.
- Have a code template ready to solve all your problems.
- Solve the easier problems first and then go for the harder ones.
- Before submitting a solution, test it on your computer.



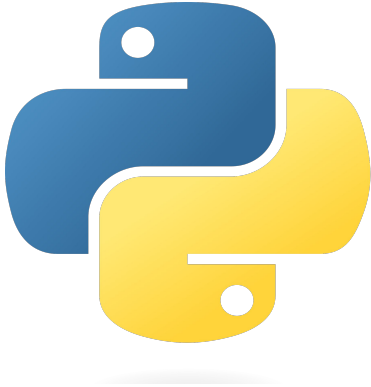
# Intercollegiate Programming Competition

- Go to <https://www.seminolestate.edu/computers/competition> to get info about the competition.
- Go to [https://github.com/joseprleader/Source\\_Code/tree/main/Competition](https://github.com/joseprleader/Source_Code/tree/main/Competition) and read the focus.txt file

# Programming languages to cover

## Python

- Straightforward
- Less wordy



## Java

Essential for CS  
More detailed and specific



# Replit

- Join my Python Replit: <https://replit.com/join/sigyotdfjb-joseprogrammer>
- Join my Java Replit: <https://replit.com/join/ppzekhgqyr-joseprogrammer>
- If you don't have a replit account, create it at: <https://replit.com/signup>

# How to read a file

## Python

```
1 file_obj = open('example.txt')
2
3 for i in file_obj:
4     print(i)
5
6 file_obj.close()
```

C:\Users\ak111\PycharmProjects\pythonCourse\venv\Scripts\python.exe C:/Users/ak111/PycharmProjects/pythonCourse/main.py

New line

second line

Process finished with exit code 0

# How to read a file

## Java

```
import java.io.*;

public class MyFileReader
{
    public static void readFile(String fileName) throws
    IOException
    {
        FileReader fileToRead = new FileReader(fileName);
        BufferedReader bf = new BufferedReader(fileToRead);

        while (bf.ready())
        {
            System.out.println(bf.readLine());
        }
    }
}
```

# Challenges Covered

## **2021 Blue Track Challenges**

- Electric Charges
- Where Am I
- Glad to be one

## **2021 Golden Track Challenge**

- Find the Missing Side



# Challenges Covered

## **2019 Blue Track Challenges**

- Consecutive Numbers
- Let's Make a Call
- Glad to be one

## **2019 Golden Track Challenge**

- Parallel or Intersecting Lines
- Weighted Sum
- Overlapping Rectangles

# Solutions

- All solutions to this challenges will be posted by Friday at:  
[https://github.com/joseprleader/Source\\_Code/tree/main/Competition](https://github.com/joseprleader/Source_Code/tree/main/Competition)

# CHALLENGE SOLVING TIME

- Let's get to solve these challenges.

