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Homework 7 – GC

**Problem:** The problem is that there is no way for a user to be able to calculate the percentage of A, T, C, and G pigments that make up DNA

**Solution:** The solution would be my program. It will read information from the sequence.txt file, then use that info to calculate the averageGC, figures out if the pigments are Pathogenic, and then uses printToFile to print that info to the file.

**Pseudocode:**

Start

**Open File**

**Initialize:** seq & read number of seq

**Initialize:** char & read number of char

**For:** i=0; i<seq; i++

**Initialize Counter:** how many times A, T, C, G occur

**Calculate: AvgGC =**

Content[i][0] = (A/(A+T+C+G)\*100)

Content[i][1] = (T/(A+T+C+G)\*100)

Content[i][2] = (C/(A+T+C+G)\*100)

Content[i][3] = (G/(A+T+C+G)\*100)

**isPathogenic:** Figure out is pigment of DNA is Pathogenic or not

Yes = print Y, No = print N

**PrintToFile:** all of the answers that were gathered

Stop