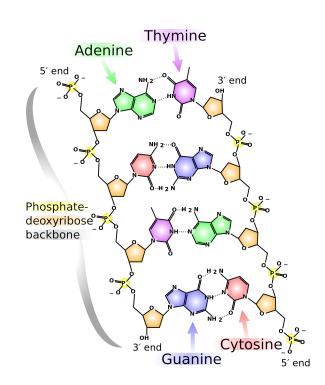
## **String Coding**

## **Part 1: Counting Base Pairs**

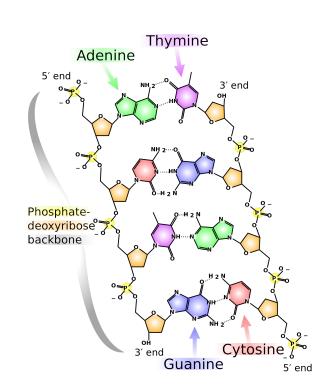
Scan in a string (using fgets())
consisting of C, G, A, and T

 Print out the number of C's, G's, A's and T's as output



## Part 2: Analyzing GC Content

- Using your count from part one, calculate the percentage of the string that consists of G's or C's.
  - If the GC content is > 60%, print "extron"
  - If the GC content is < 50%, print "intron"
  - Else, print that the purpose is unknown



## Part 3: Reverse Complement

When copied, DNA is flipped (A → T, T → A, C → G, G → C) AND reversed, becoming a reverse complement. In addition to the information printed in Parts 1 and 2, print the reverse complement of the scanned DNA string.

- Example:
  - Normal: AAAACCGGT
  - RC: TCCGGTTTT

