# Counting DNA Nucleotides

A [**string**](http://rosalind.info/glossary/string/) is simply an ordered collection of symbols selected from some [**alphabet**](http://rosalind.info/glossary/alphabet/) and formed into a word; the [**length**](http://rosalind.info/glossary/string-length/) of a string is the number of symbols that it contains.

An example of a length 21 [**DNA string**](http://rosalind.info/glossary/dna-string/) (whose alphabet contains the symbols 'A', 'C', 'G', and 'T') is "ATGCTTCAGAAAGGTCTTACG."

**Assumption :**

String data is in upper case.

**Design Method:**

Hashing (Python Dictionary)

**Programming language** :

Python

**Why Python?**

Easy to implement and have good environment for Data Anaylsis and have special data structure as Dictionary

**Result** :

Time Complexity = O(length of string)

Space Complexity = O(length of string + Dictionary)