

Project 5: Bioinformatics

A genome can be modeled by a sequence of the letters A, C, T and G.

A gene is a substring of a genome that starts after a triplet ATG and ends before any of the triplets TAG, TAA, OR TGA. Also, a gene does NOT contain any of the triplets ATG, TAG, TAA, OR TGA and the length of a gene string is a multiple of three.

Create a program that repeatedly prompts the user to enter a genome and displays all the genes in the genome. If no gene is found in the input sequence, display “No Gene Found”.

Sample Genome String: TTATGTTTTAAGGATGGGGCGTTAGTT

Genes Identified: TTT GGGCGT