# Translating DNA (to RNA) into Protein

## **Problem**

The 20 commonly occurring amino acids are abbreviated by using 20 letters from the English alphabet (all letters except for B, J, O, U, X, and Z). **Protein strings** are constructed from these 20 symbols. Henceforth, the term **genetic string** will incorporate protein strings along with DNA strings and RNA strings.

The **RNA codon table** dictates the details regarding the encoding of specific codons into the amino acid alphabet.

### Given:

An DNA string s (of length at most 10 kbp).

#### Return:

The protein string encoded by s.

#### HINT:

Transcribe the given DNA string into RNA before translating it into protein sequence

Use the codon table (Which is provided in this document as a python dictionary) for translating it to the protein sequence - to save you some time typing the whole codon table;)

#### **CODON TABLE DICTIONARY:**

Sample Dataset
ATGGCCATGGCGCCCAGAACTGAGATCAATAGTACCCGTATTAACGGGTGA
Sample Output
MAMAPRTEINSTRING