

CSE1322L - Assignment 5 (Spring 2025)

One of the utilities of DNA in living creatures is the storage of information. Specifically, whenever the body needs to generate more proteins of a certain type, a DNA helix associated with that protein may be broken up so its contents can be read. At its

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SWITCH statement to translate codons into amino acids:

```
switch(sequence){
  case "GCA":
  case "GCC":
  case "GCG":
  case "GCT":
    aminoacid = "A";
    break;
  case "TGC":
  case "TGT":
    aminoacid = "C";
    break;
  case "GAC":
  case "GAT":
    aminoacid = "D";
    break;
  case "GAA":
  case "GAG":
    aminoacid = "E";
    break;
  case "TTC":
  case "TTT":
    aminoacid = "F";
    break;
  case "GGA":
  case "GGC":
  case "GGG":
  case "GGT":
    aminoacid = "G";
    break;
  case "CAC":
  case "CAT":
    aminoacid = "H";
    break;
  case "ATA":
  case "ATC":
  case "ATT":
    aminoacid = "I";
    break;
  case "AAA":
  case "AAG":
    aminoacid = "K";
    break;
  case "CTA":
  case "CTC":
  case "CTG":
  case "CTT":
  case "TTA":
  case "TTG":
    aminoacid = "L";
    break;
  case "ATG":
    aminoacid = "M";
    break;
  case "AAT":
  case "AAC":
    aminoacid = "N";
    break;
  case "C" W n B T F 3
```