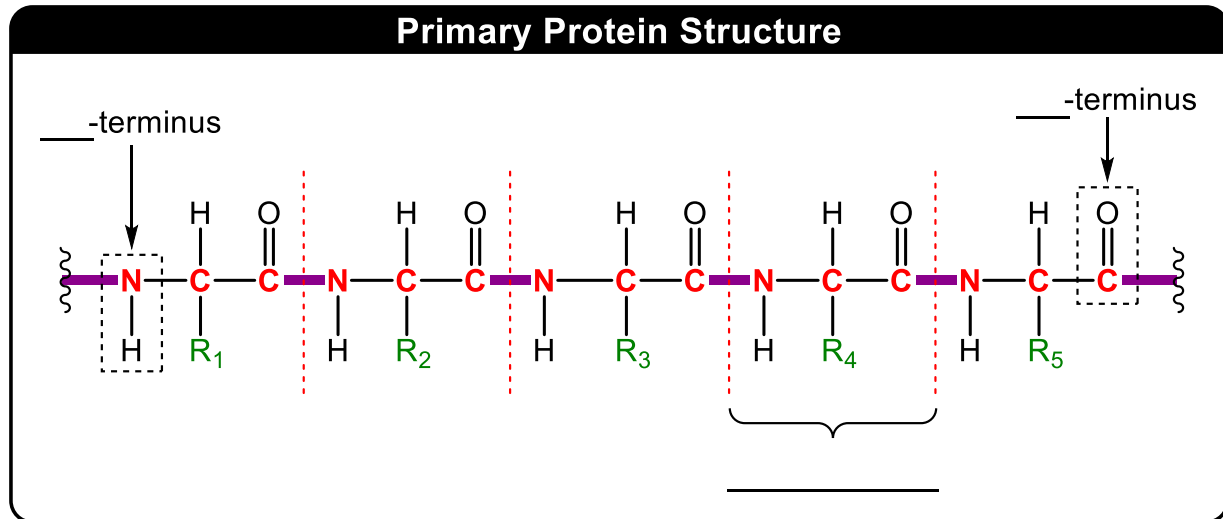


## CONCEPT: PRIMARY PROTEIN STRUCTURE

- The primary structure of a protein is the \_\_\_\_\_ of amino acids attached through **peptide bonds**.
  - Structure is represented from \_\_\_\_\_-terminus to \_\_\_\_\_-terminus.

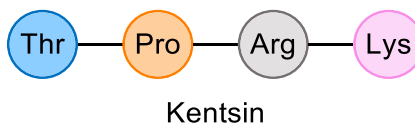
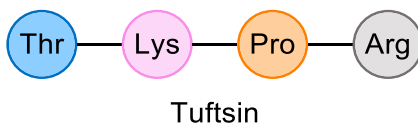


- The repeating **N-C-C** sequence forms the peptide \_\_\_\_\_.
  - The backbone may either \_\_\_\_\_ or \_\_\_\_\_ to form the next level of protein structure.

**EXAMPLE:** Which of the following statements about primary protein structure is incorrect?

- Peptide bonds that hold the amino acids together in the primary structure are covalent in nature.
- The peptide backbone is formed by a repeating N-C-C sequence.
- The standard representation of primary protein is from N- to C-terminus.
- The peptide backbone can have non-amino acid parts in addition to amino acid residues.

**PRACTICE:** Do the following peptides have an identical primary structure?



- Yes
- No