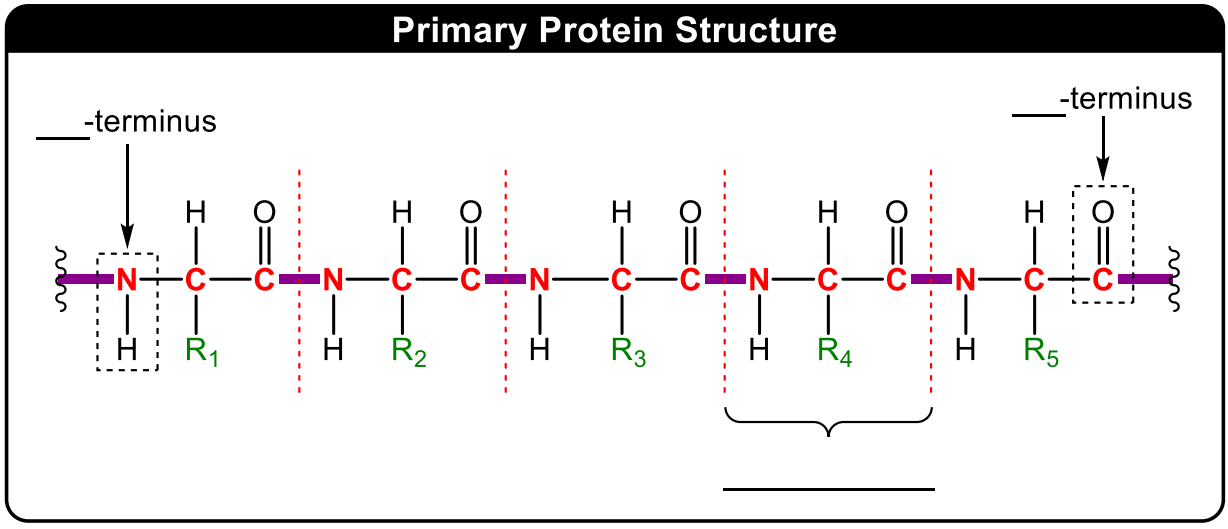
CONCEPT: PRIMARY PROTEIN STRUCTURE

- 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?

a) Peptide bonds that hold the amino acids together in the primary structure are covalent in nature.

b) The peptide backbone is formed by a repeating N–C–C sequence.

c) The standard representation of primary protein is from N- to C-terminus.

d) 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?

a) Yes

b) No