

Which choice below best fits in the blank? The different bands of a DNA fingerprint represent segments of DNA that differed in ____, and so moved at different speeds during electrophoresis.

- A pH
 - B length
 - C sequence
 - D guanine content
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After the DNA has been cut with restriction enzymes, it is subjected to gel electrophoresis, which separates the DNA into these bands. Each band consists of many molecules of DNA of a particular length. Bands near the top of the gel contain longer DNA segments than do bands that have moved further down the gel.

Answer **B**.