Answer to Question#38609 – Math – Other

If the strings of a language L can be effectively enumerated in
lexicographic (i.e. alphabetic) order, which of the following statements
is true?
(A) L is necessarily finite
(B) L is regular but not necessarily finite
(C) L is context free but not necessarily regular
(D) L is recursive but not necessarily context free

Solution:
Since L can be effectively enumerated so L has to be regular, but is doesn't mean
that the decisions are finite.
Hence (B) is correct option.
Answer: (B) L is regular but not necessarily finite