Which of the following regular expressions will match a string

that contains exactly three consecutive digits, preceded by one or

more lowercase letters, and followed by zero or more uppercase letters?

A) r"[a-z]+\d{3}[A-Z]*"

B) r"[a-z]*\d{3}[A-Z]+"

C) r"[a-z]+\d+[A-Z]*"

D) r"\w+\d{3}\w*"