



9. What is the remainder when the 2008-digit number $222 \dots 22$ is divided by 9?

- A 8 B 6 C 4 D 2 E 0

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9. **D** A number is divisible by 9 if, and only if, the sum of its digits is divisible by 9. The given number is $N + 2$, where $N = 222 \dots 220$ has 2007 2s. Since $2007 = 223 \times 9$, N is divisible by 9 and the required remainder is therefore 2.