

Show all work for credit. Write responses using complete sentences, as appropriate.

Note: HW will no longer be routinely collected. Instead, we'll have spot quizzes in class.

1. If the third digit of the American Express Travelers Cheque number 390124323 is mistyped, can the check digit detect the error? Explain.
2. If the last digit of the Avis rental car number 3960040 is mistyped, can the check digit detect the error? Explain.
3. If the last two digits of the UPC code 5-12500-65590-6 are exchanged, can the check digit detect the error? Explain.
4. If the third and fourth digits of the bank identification number 250150205 are exchanged, can the check digit detect the error? Explain.
5. Is 0-1370-2990-X a viable ISBN number? If not, can the second digit be changed to produce a viable ISBN number?
6. If the third and fourth digits of the ISBN number 0-7167-4782-0 are exchanged, can the check digit detect the error? Explain.
7. Is 20-7039-362-3 a valid ISBN? If not, change the check digit to correct the error.
8. If the first digit of the Postnet code 1001025001 is mistyped, can the check digit detect the error? Explain.
9. The ISBN code system detects all single-digit errors and single transpositions. Even so, it has a major drawback. What is it?
10. Give examples of some uses of the Codabar method.
11. If the first and third digits of a bank identification number are exchanged, can the check digit detect the error? Explain.
12. If the first and third digits of a Codabar number are exchanged, can the check digit detect the error? Explain.
13. Is the number 0-413882-5 a viable UPC Version E number? If not, change the final digit to produce a viable UPC Version E number.