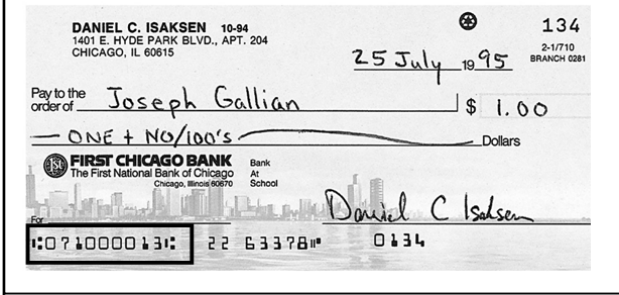


# Identification Numbers

## Bank Identification Number



## ERROR DETECTING METHOD BANK IDENTIFICATION NUMBERS (frequently called "routing numbers")

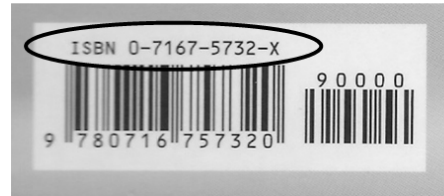
Given any 9 digit bank routing number  $a_1a_2a_3a_4a_5a_6a_7a_8a_9$  then

## Codabar - Used by Major Credit Card companies

- 1) Add the digits in the positions and double.
- 2) the number of digits in the positions that are greater than 4.
- 3) Add the answers to # 1 & 2 and add in the remaining digits.
- 4) The check digit is whatever is needed to add to this total to make it end in

## ISBN - International Standard Book Number

Our Textbook For All Practical Purposes



ISBN 3/22/2007

The Video  
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Computer  
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Geometry Test  
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The check digit for this ISBN is When  
the check digit is it is replaced by an X.



## Identification Numbers

### Calculating the check digit for an ISBN

- 1) Multiply each digit by 10, 9, 8, 7, 6, 5, 4, 3, 2, 1 respectively.
- 2) add them together
- 3) The check digit is whatever it takes to make the number evenly divisible by 11.

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