

AMDM

Verifying Codes from Real Products

Name:

Product	UPC Code	Verification
Book	ISBN Code	Verification

Bank Routing Numbers

John Smith
123 Elm Street
Anytown, USA

Date _____ 101

Pay to the order of _____ \$ _____

_____ Dollars

YourBank

⑆ 1 2 3 4 5 6 7 8 9 ⑆ 0 0 0 0 1 2 3 4 5 ⑆ 1 0 1

Routing Number Account Number Check Number

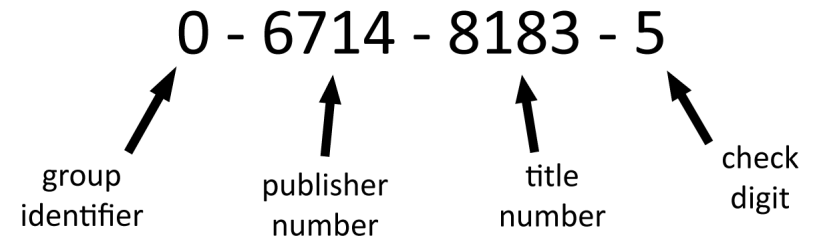
- Routing numbers are 9 digits long
- The 9th digit is a check digit
- To determine if the routing number is valid, compute a weighted sum with the weights 7, 3, 9, 7, 3, 9, 7, 3, 9
- If this sum ends in 0, then the number is valid

Examples:

1. Show that 111000025 is a valid routing number

2. Which check digit should be added to the end of the bank routing number 09969872□ ?

International Standard Book Number (ISBN)



- For an ISBN number, the weighted sum is computed with weights 10, 9, 8, 7, 6, 5, 4, 3, 2, 1
- If the weighted sum is evenly divisible by 11, then the number is valid

Examples:

1. Show that the ISBN 0-6714-8183-5 is valid.

2. Which check digit should be used for the ISBN 0-5199-4003-□ ?