HyperGrade

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Exercise 1: ISBN Checksum

Assignment Specifications

A ten digit ISBN number uses a checksum as its last digit to verify the first nine digits are valid. Before 2007, all ISBN numbers were composed like this, such as: 0-20-508005-7 or 1-234-56789-X. The first nine digits are assigned by a book's publisher and the last digit is calculated by "weighted sum" (described below). The X stands for the checksum value of 10, in order to represent ten as a single digit.

Your Assignment

You must write a program that calculates and outputs this checksum value given the first nine digits of the ISBN number, utilizing the checksum algorithm below.

ISBN Checksum Algorithm

To compute the weighted sum we start from the left-most digit:

Sum one times the first digit, plus two times the second digit, plus three times the third, etc. all the way to nine times the ninth digit.

Note: Just because we describe the calculation as "starting with the left-most digit" does NOT mean that that is the best order for the C++ algorithm! Plan carefully for the simplest way