need major help with validating ISBN with reading and inputing files

Posted 30 July 2012 - 03:35 PM

only the first nine digits in an ISBN are used to identify a book. The tenth character serves as a check digit to verify that the preceding 9 digits are correctly formed. This check digit is selected so that the value computed as shown in the following algorithm is evenly divisible by 11. Since the check digit may sometimes need to be as large as 10 to guarantee divisibility by 11, a special symbol was selected by the ISBN designers to represent 10, and that is the role played by X.  
  
The algorithm used to check an ISBN is relatively simple. Two sums, s1 and s2, are computed over the digits of the ISBN. s1 is the partial sum of the digits of ISBN and s2 the partial sum of s1. The ISBN is correct if the final value of s2 is evenly divisible by 11.  
  
An example will clarify the procedure. Consider the (correct) ISBN 0-13-162959-X. First look at the calculation of s1:   
The ISBNs will be in a file called isbn\_input.txt . In that file there will be one ISBN per line. The ISBNs may be valid or invalid. The ISBNs may have zero or more hyphens ("-"). The invalid ISBNs may have extraneous characters in them or may have insufficient number of digits. Your program should be general enough to process any file in the format that we just discussed and not just on the sample file that we have linked to. The input file that we will be testing your program on will be different from the one provided.  
  
Your program will open the file isbn\_input.txt for reading. You will read one line at a time as a string, then parse the string character by character and store the digits and the character X into a list. Remember the hypen ('-') character can occur anywhere in the string. There are several tests that you will have to perform to insure that you have a valid ISBN.  
  
Only the characters '0' through '9', 'X' or 'x', and '-' is present in the input string.  
There are exactly nine digits from '0' through '9' and the last character is either a digit or 'X' or 'x'.  
You will design your program having several methods. You will also use some of the methods in the String class. You will create two arrays s1 and s2 that will hold the partial sums as outlined above. If the last element in the array s2 is divisible by 11 then you have a valid ISBN.  
You will open another file isbn\_output.txt for writing. After you have read a line from the input file and determined whether it is a valid ISBN or not you will write out the result in the output file. The format will be as follows.  
  
0-1315-2447-X valid  
0-89237-010-9 invalid  
Close the files isbn\_input.txt and isbn\_output.txt after you have finished processing.  
this is what i have so far, i need major help

[view source](http://www.dreamincode.net/forums/topic/287471-need-major-help-with-validating-isbn-with-reading-and-inputing-files/#viewSource)

[print](http://www.dreamincode.net/forums/topic/287471-need-major-help-with-validating-isbn-with-reading-and-inputing-files/#printSource)[?](http://www.dreamincode.net/forums/topic/287471-need-major-help-with-validating-isbn-with-reading-and-inputing-files/#about)

|  |  |  |
| --- | --- | --- |
| 01 | import java.io.\*; | |
| 02 |  |

|  |  |  |
| --- | --- | --- |
| 03 | public class ReadTextFile | |
| 04 | { |

|  |  |  |
| --- | --- | --- |
| 05 | public static void main (String [] args) throws IOException | |
| 06 | { |

|  |  |  |
| --- | --- | --- |
| 07 | File inFile = new File ("input.txt"); | |
| 08 |  |

|  |  |  |
| --- | --- | --- |
| 09 | Scanner sc = new Scanner (inFile); | |
| 10 | while (sc.hasNextLine()) |

|  |  |
| --- | --- |
| 11 | { |
| 12 | String line = sc.nextLine(); | |

|  |  |  |
| --- | --- | --- |
| 13 | boolean isValid = isISBN(line); | |
| 14 | if (isValid) |

|  |  |  |
| --- | --- | --- |
| 15 | System.out.println (line); | |
| 16 | else |

|  |  |  |
| --- | --- | --- |
| 17 | System.out.println(); // expected message | |
| 18 | } |

|  |  |  |
| --- | --- | --- |
| 19 | sc.close(); | |
| 20 | } |

|  |  |
| --- | --- |
| 21 | } |

This post has been edited by **Atli**: 30 July 2012 - 03:55 PM   
Reason for edit:: Please use [code] tags when posting code.