

Homework #3 – Roman Numeral Converter

Description

Accept as input a Roman numeral or a command to quit; there shall be only one prompt for the Roman numeral or quit command (i.e., input a single string). Ignore case ("mmm" is equivalent to "MMM").

A valid Roman numeral is one that complies with the rules. Rules for Roman numerals are available at

http://www.onlineconversion.com/roman_numerals_advanced.htm. A valid Roman numeral uses the minimum number of letters (X instead of VV) and has larger values to the left and smaller values to the right (XIX instead of IXX).

Requirements

Do not output anything if the quit command is input. Output "valid" and the value if the input is a valid Roman numeral. Otherwise output "invalid."

Output

Example (user input is shown in **bold**):

Enter a Roman numeral or quit

Input: **IiIi**

invalid

Input: **vc**

invalid

Input: **IIXV**

invalid

Input: **iC**

invalid

Input: **Dm**

invalid

Input: **McMxCiX**

valid - 1999

Input: **MmIV**

valid - 2004

Input: **MDCCLXXVI**

valid - 1776

Input: **Quit**