Convert an integer to Roman Number

Write a Java Program to convert a given integer that less than 4000 to a Roman Number representation.

The following details could help you know about Roman numbers and their conversion rules.

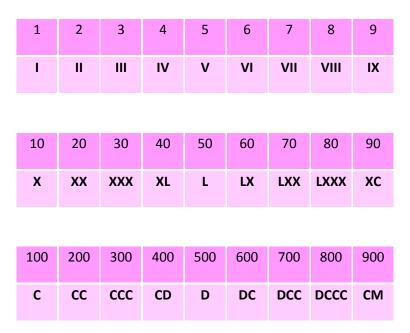
The Roman Symbols

Romans Numerals are based on the following symbols:

1	5	10	50	100	500	1000
I	V	X	L	С	D	M

Basic Combinations

Which can be combined like this:



Forming Numbers - The Rules

1) When a symbol appears after a larger symbol it is added

• Example: VI = V + I = 5 + 1 = 6

2) But if the symbol appears before a larger symbol it is subtracted

• Example: IX = X - I = 10 - 1 = 9

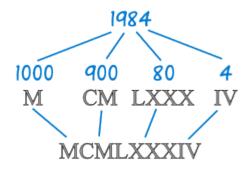
3) Don't use the same symbol more than three times in a row.

What are the rules for subtracting letters? Can I write MIM for 1999? What about IIII for 4?

Here are the official rules for subtracting letters:

- Subtract only powers of ten, such as I, X, or C. Writing VL for 45 is not allowed: write XLV instead.
- o Subtract only a single letter from a single numeral. Write VIII for 8, not IIX; 19 is XIX, not IXX.
- o Don't subtract a letter from another letter more than ten times greater. This means that you can only subtract I from V or X, and X from L or C, so MIM is illegal.

Example: Convert 1984 to Roman Numerals.



Break 1984 into 1000, 900, 80 and 4, then do each conversion

- 1000 = M
- 900 = CM
- 80 = LXXX
- 4 = IV

1000 + 900 + 80 + 4 = 1984, so **1984 = MCMLXXXIV**