

1) Roman numerals were the numerical system of the Roman Empire. They use the letters I,V,X,L,C,D,M to represent positive integers. The Wikipedia entry on roman numerals http://en.wikipedia.org/wiki/Roman_numerals describes rules for converting back and forth between Roman numerals and Arabic numerals.

Write a list set of Lisp functions to convert between the two numeric representations:

- **roman-to-arabic** – to convert a Roman numeral – given as the list of its letters- to the corresponding Arabic numeral
- **arabic-to-roman** – to convert an Arabic numeral – given as a regular number – to the corresponding Roman numeral – represented as a list of its letters

For example:

`(roman-to-arabic '(M M X I I)) → 2012`

`(arabic-to-roman 1977) → (M C M L X X V I I)`

NOTE: Your implementation must be consistent with the rules described in the Wikipedia's roman numerals entry.

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