

Coding Dojo: Converting between different numeral systems

Converting numeral systems

During this session we will explore converting between different numeral systems. The numeral system we commonly use in the West (1,2,3 etc) is called Western Arabic. Although it's actually Hindu (Arabic traders brought it to Europe via India), we will refer to it as Arabic. In central Europe this eventually replaced a simplistic system called Urnfield.

Specification

We require a program that will convert between 3 different numeral systems; Arabic, Roman, Urnfield.

The following ranges are required:

- Roman: 1..3499
- Urnfield: 1..29

Roman

Roman numerals are based on seven symbols which can be combined to represent numbers.

Roman Symbol Arabic Value

I	1
V	5
X	10
L	50


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Example 7: Urnfield -> Arabic (reverse examples 3..5)
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Examples 8: Roman -> Urnfield
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I, II, III, IV, V, VI, VII, VIII, IX, X, XXIX
```

```
-> /, //, ///, ////, \, /\, /\, /\, /\, \, ////\
```

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