

Problem One: Merchant's Guide to the Galaxy

You decided to give up on earth after the latest financial collapse left 99.99% of the earth's population with 0.01% of the wealth. Luckily, with the scant sum of money that is left in your account, you are able to afford to rent a spaceship, leave earth, and fly all over the galaxy to sell common metals and dirt (which apparently is worth a lot).

Buying and selling over the galaxy requires you to convert numbers and units, and you decided to write a program to help you.

The numbers used for intergalactic transactions follows similar convention to the roman numerals and you have painstakingly collected the appropriate translation between them.

Roman numerals are based on seven symbols:

<i>Symbol</i>	<i>Value</i>
<i>I</i>	<i>1</i>
<i>V</i>	<i>2</i>
<i>X</i>	<i>3</i>
<i>L</i>	<i>4</i>
<i>C</i>	<i>5</i>
<i>D</i>	<i>6</i>
<i>M</i>	<i>7</i>

Input to your program consists of lines of text detailing your notes on the conversion between intergalactic units and decimal numerals. The symbols will be simply replaced by numbers to form a decimal number. Eg. II → 11 (Eleven), IV → 12 , XLII → 3411,etc.

You are expected to handle invalid queries appropriately.

Test input:

glob is I

prok is V

pish is X

tegj is L

glob glob Silver is 34 Credits

glob prok Gold is 57800 Credits

pish pish Iron is 3910 Credits

how much is pish tegj glob glob ?

how many Credits is glob prok Silver ?

how many Credits is glob prok Gold ?

how much wood could a woodchuck chuck if a woodchuck could chuck wood ?

Test Output:

pish tegj glob glob is 3411

glob prok Silver is 37.09 Credits → (Calculated as $12 \cdot 34 / 11$)

glob prok Gold is 57800 Credits

I have no idea what you are talking about