|  |
| --- |
| X means 10. But wait — what about 9? Same deal. IX means to subtract I from X, leaving 9. Numbers in the teens, twenties and thirties follow the same form as the first set, only with X's indicating the number of tens. So XXXI is 31, and XXIV is 24. |
| C stands for centum, the Latin word for 100. A centurion led 100 men. We still use this in words like "century" and "cent." The subtraction rule means 90 is written as XC. Like the X's and L's, the C's are tacked on to the beginning of numbers to indicate how many hundreds there are: CCCLXIX is 369. |
| D stands for 500. As you can probably guess by this time, CD means 400. So CDXLVIII is 448. (See why we switched systems?) |
| L means 50. Based on what you've learned, I bet you can figure out what 40 is. If you guessed XL, you're right = 10 subtracted from 50. And thus 60, 70, and 80 are LX, LXX and LXXX. |
| M is 1,000. You see a lot of Ms because Roman numerals are used a lot to indicate dates. For instance, this page was written in the year of Nova Roma's founding, 1998 CE (Common Era; Christians use AD for Anno Domini, "year of our Lord"). That year is written CMXCVIII. But wait! Nova Roma counts years from the founding of Rome, ab urbe condita. By that reckoning Nova Roma was founded in 2751 a.u.c. or MMDCCLI. JAVA CODE |

import java.util.\*;

class IntegerToRoman

{

public static void intToRoman(int num)

{

int[] values = {1000,900,500,400,100,90,50,40,10,9,5,4,1};

String[] romanLetters = {"M","CM","D","CD","C","XC","L","XL","X","IX","V","IV","I"};

StringBuilder roman = new StringBuilder();

for(int i=0;i<values.length;i++)

{

while(num >= values[i])

{

num = num - values[i];

roman.append(romanLetters[i]);

}

}

System.out.println(roman.toString());

}

public static void main(String args[])

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

intToRoman(n);

}

}