Integer to Roman

Given an integer, convert it to a roman numeral.

Input is guaranteed to be within the range from 1 to 3999.

Solution 1

```
public static String intToRoman(int num) {
    String M[] = {"", "M", "MMM", "MMM"};
    String C[] = {"", "C", "CCC", "CD", "D", "DC", "DCC", "DCC", "CM"}
;

String X[] = {"", "X", "XXX", "XXX", "L", "L", "LX", "LXXX", "XC"}
;

String I[] = {"", "I", "II", "III", "IV", "V", "VI", "VII", "VIII", "IX"}
;

return M[num/1000] + C[(num%1000)/100] + X[(num%100)/10] + I[num%10];
}
```

written by fabrizio3 original link here

Solution 2

}

Reference: http://blog.csdn.net/beiyeqingteng/article/details/8547565 public class Solution { public String intToRoman(int num) {

```
int[] values = {1000,900,500,400,100,90,50,40,10,9,5,4,1};
String[] strs = {"M","CM","D","CD","C","XC","L","XL","X","IX","V","IV","I"};
StringBuilder sb = new StringBuilder();

for(int i=0;i<values.length;i++) {
    while(num >= values[i]) {
        num -= values[i];
        sb.append(strs[i]);
    }
}
return sb.toString();
}
```

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Solution 3

```
String[] romanPieces={"","I","II","III","IV","V","VI","VII","VIII","IX",
"","X","XX","XXX","XL","L","LX","LXX","LXXX","XC",
"","C","CC","CCC","CD","D","DCC","DCCC","CM",
"","M","MM","MMM","MMMM"}; return
romanPieces[num/1000+30]+romanPieces[(num/100)%10+20]
+romanPieces[(num/10)%10+10]+romanPieces[num%10];
```

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From Leetcoder.