12/25/2018 Dec 27, 2018 12:33 AM Math - LeetCode

## ■ Math

```
2
       Add Two Numbers (/problems/add-two-numbers)
                                                                                 Output: false
                                                                                 Explanation: Reads 01 from right to left. Therefore it is not a palindrome.
                                                                                                   public boolean isPalindrome(int x) {
13
       Roman to Integer (/problems/roman-to-integer)
                                                                                                      if (x<0 || (x!=0 && x%10==0)) return false;</pre>
                                                                                                      int rev = 0:
                                                                                                      while (x>rev){
                                                                                                         rev = rev*10 + x%10:
9
       Palindrome Number (/problems/palindrome-number)
                                                                                                         x = x/10;
                                                                                                      return (x==rev || x==rev/10);
12
       Integer to Roman (/problems/integer-to-roman)
                                                                                                   "MM", "MMM"]
"CC", "CCC", "CD", "D", "DC", "DCC", "DCCC", "CM"]
"XX", "XXX", "XL", "L", "LX", "LXX", "LXXX", "XC"]
"III, "III," "IV", "V", "VI", "VIII, "VIII, "IX"]
/1000] + C[(num%1000)//100] + X[(num%100)//10] + I[
7
       Reverse Integer (/problems/reverse-integer)
                                                              [-2^{31}, 2^{31} - 1].
535
       Encode and Decode TinyURL (/problems/encode-and-decode-tinyurl)
                                                                                            Input: 38
                                                                                            Output: 2
66
       Plus One (/problems/plus-one)
                                                                                            Explanation: The process is like: 3 + 8 = 11, 1 + 1 = 2
                                                                                                      Since 2 has only one digit, return it.
                                                                                       return 0 if num == 0 else (num - 1) \% 9 + 1
258
       Add Digits (/problems/add-digits)
149
       Max Points on a Line (/problems/max-points-on-a-line)
                   Will do this in hashtable
67
       Add Binary (/problems/add-binary)
202
       Happy Number (/problems/happy-number)
171
       Excel Sheet Column Number (/problems/excel-sheet-column-number)
50
       Pow(x, n) (/problems/powx-n)
                                                                                              Input: 5
                                                                                              Output: 1
172
       Factorial Trailing Zeroes (/problems/factorial-trailing-zeroes)
                                                                                              Explanation: 5! = 120, one trailing zero.
8
           ing to Integer (atoi) (problems/string-to-integer-atoi)
233
       Number of Digit One (/problems/number-of-digit-one)
273
       Integer to English Words (/problems/integer-to-english-words)
728
       Self Dividing Numbers (/problems/self-dividing-numbers)
319
       Bulb Switcher (/problems/bulb-switcher)
223
       Rectangle Area (/problems/rectangle-area)
29
        Divide Two Integers (/problems/divide-two-integers)
268
       Missing Number (/problems/missing-number)
326
       Power of Three (/problems/power-of-three)
43
       Multiply Strings (/problems/multiply-strings)
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/	279	Perfect Squares (/problems/perfect-squares)
	335	Self Crossing (/problems/self-crossing)
	204	Count Primes (/problems/count-primes)
	453	Minimum Moves to Equal Array Elements (/problems/minimum-moves-to-equal-array-elements)
	69	Sqrt(x) (/problems/sqrtx)
	65	Valid Number (/problems/valid-number)
	231	Power of Two (/problems/power-of-two)
	224	Basic Calculator (/problems/basic-calculator)
	263	Ugly Number (/problems/ugly-number)
	168	Excel Sheet Column Title (/problems/excel-sheet-column-title)
	415	Add Strings (/problems/add-strings)
	413	Arithmetic Slices (/problems/arithmetic-slices)
	628	Maximum Product of Three Numbers (/problems/maximum-product-of-three-numbers)
	166	Fraction to Recurring Decimal (/problems/fraction-to-recurring-decimal)
	357	Count Numbers with Unique Digits (/problems/count-numbers-with-unique-digits)
	264	Ugly Number II (/problems/ugly-number-ii)
	343	Integer Break (/problems/integer-break)
<b>/</b>	60	Permutation Sequence (/problems/permutation-sequence)
	296	Best Meeting Point (/problems/best-meeting-point) ■
	372	Super Pow (/problems/super-pow)
	812	Largest Triangle Area (/problems/largest-triangle-area)
	400	Nth Digit (/problems/nth-digit)
	368	Largest Divisible Subset (/problems/largest-divisible-subset)
	313	Super Ugly Number (/problems/super-ugly-number)
	537	Complex Number Multiplication (/problems/complex-number-multiplication)

396	Rotate Function (/problems/rotate-function)
672	Bulb Switcher II (/problems/bulb-switcher-ii)
753	Cracking the Safe (/problems/cracking-the-safe)
883	Projection Area of 3D Shapes (/problems/projection-area-of-3d-shapes)
829	Consecutive Numbers Sum (/problems/consecutive-numbers-sum)
553	Optimal Division (/problems/optimal-division)
942	DI String Match (/problems/di-string-match)
887	Super Egg Drop (/problems/super-egg-drop)
633	Sum of Square Numbers (/problems/sum-of-square-numbers)
367	Valid Perfect Square (/problems/valid-perfect-square)
507	Perfect Number (/problems/perfect-number)
877	Stone Game (/problems/stone-game)
908	Smallest Range I (/problems/smallest-range-i)
645	Set Mismatch (/problems/set-mismatch)
441	Arranging Coins (/problems/arranging-coins)
462	Minimum Moves to Equal Array Elements II (/problems/minimum-moves-to-equal-array-elements-ii)
598	Range Addition II (/problems/range-addition-ii)
670	Maximum Swap (/problems/maximum-swap)
858	Mirror Reflection (/problems/mirror-reflection)
365	Water and Jug Problem (/problems/water-and-jug-problem)
423	Reconstruct Original Digits from English (/problems/reconstruct-original-digits-from-english)
836	Rectangle Overlap (/problems/rectangle-overlap)
885	Spiral Matrix III (/problems/spiral-matrix-iii)
247	Strobogrammatic Number II (/problems/strobogrammatic-number-ii)
248	Strobogrammatic Number III (/problems/strobogrammatic-number-iii)

592	Fraction Addition and Subtraction (/problems/fraction-addition-and-subtraction)
478	Generate Random Point in a Circle (/problems/generate-random-point-in-a circle)
246	Strobogrammatic Number (/problems/strobogrammatic-number)
593	Valid Square (/problems/valid-square)
517	Super Washing Machines (/problems/super-washing-machines)
891	Sum of Subsequence Widths (/problems/sum-of-subsequence-widths)
754	Reach a Number (/problems/reach-a-number)
780	Reaching Points (/problems/reaching-points)
775	Global and Local Inversions (/problems/global-and-local-inversions)
640	Solve the Equation (/problems/solve-the-equation)
397	Integer Replacement (/problems/integer-replacement)
360	Sort Transformed Array (/problems/sort-transformed-array) →
523	Continuous Subarray Sum (/problems/continuous-subarray-sum)
781	Rabbits in Forest (/problems/rabbits-in-forest)
892	Surface Area of 3D Shapes (/problems/surface-area-of-3d-shapes)
899	Orderly Queue (/problems/orderly-queue)
660	Remove 9 (/problems/remove-9) ■
868	Binary Gap (/problems/binary-gap)
805	Split Array With Same Average (/problems/split-array-with-same-average)
483	Smallest Good Base (/problems/smallest-good-base)
910	Smallest Range II (/problems/smallest-range-ii)
869	Reordered Power of 2 (/problems/reordered-power-of-2)
914	X of a Kind in a Deck of Cards (/problems/x-of-a-kind-in-a-deck-of-cards)
794	Valid Tic-Tac-Toe State (/problems/valid-tic-tac-toe-state)
810	Chalkboard XOR Game (/problems/chalkboard-xor-game)
906	Super Palindromes (/problems/super-palindromes)

952	Largest Component Size by Common Factor (/problems/largest-component-size-by-common-factor)
634	Find the Derangement of An Array (/problems/find-the-derangement-of-anarray)
782	Transform to Chessboard (/problems/transform-to-chessboard)
651	4 Keys Keyboard (/problems/4-keys-keyboard) ■
878	Nth Magical Number (/problems/nth-magical-number)
866	Prime Palindrome (/problems/prime-palindrome)
800	Similar RGB Color (/problems/similar-rgb-color) ■
789	Escape The Ghosts (/problems/escape-the-ghosts)
469	Convex Polygon (/problems/convex-polygon)
949	Largest Time for Given Digits (/problems/largest-time-for-given-digits)
625	Minimum Factorization (/problems/minimum-factorization)
964	Least Operators to Express Number (/problems/least-operators-to-express-number)
573	Squirrel Simulation (/problems/squirrel-simulation)
356	Line Reflection (/problems/line-reflection)
927	Three Equal Parts (/problems/three-equal-parts)
902	Numbers At Most N Given Digit Set (/problems/numbers-at-most-n-given-digit-set)
963	Minimum Area Rectangle II (/problems/minimum-area-rectangle-ii)