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Practice problems aimed to improve your coding skills.

-  PRACTICE-02_SCAN-PRINT
-  PRACTICE-03_TYPES
-  LAB-PRAC-02_SCAN-PRINT
-  LAB-PRAC-01
-  PRACTICE-04_COND
-  BONUS-PRAC-02
-  LAB-PRAC-03_TYPES
-  PRACTICE-05_COND-LOOPS
-  LAB-PRAC-04_COND
 -  Trouble with Triangles
 -  Ms- Mathematica
 -  Pollution Problem
 -  In or Out
 -  Rick-s Number
 -  Its Tax Time
 -  The Toppers
 -  Isotonic Regression
 -  Super Leap Years
 -  Make Room for Rectangles
 -  Quadratic Quandry Revisited
 -  Grade Grab
-  LAB-PRAC-05_CONDLOOPS
-  PRACTICE-07_LOOPS-ARR
-  LAB-PRAC-06_LOOPS
-  LAB-PRAC-07_LOOPS-ARR
-  LABEXAM-PRAC-01_MIDSEM
-  PRACTICE-09_PTR-MAT
-  LAB-PRAC-08_ARR-STR
-  PRACTICE-10_MAT-FUN
-  LAB-PRAC-09_PTR-MAT
-  LAB-PRAC-10_MAT-FUN
-  PRACTICE-11_FUN-PTR
-  LAB-PRAC-11_FUN-PTR
-  LAB-PRAC-12_FUN-STRUC
-  LABEXAM-PRAC-02_ENDSEM
-  LAB-PRAC-13_STRUC-NUM
-  LAB-PRAC-14_SORT-MISC

Rick-s Number

LAB-PRAC-04_COND

Rick's Number [20 marks]

Problem Statement

You will be given two **non-negative four digit integers**, call them $m = abcd$ and $n = pqrs$. Given these two numbers, we define the Rick's number as follows

1. If the sum of the digits of **exactly one of m and n** are even, then the Rick's number is defined to be the number with the digits $apbqcrds$.
2. Otherwise, the Rick's number is defined to be the number with the digits $paqbrcsd$.

There will be **four lines** in your output

1. In the first line of your output, you have to print the sum of the digits of m
2. In the second line of your output, you have to print the sum of the digits of n
3. In the third line of your output, you have to print "Both" (without quotes) if both the above sums are even, "One" (without quotes) if exactly one of the sums is even, and "Neither" (without quotes) if neither of the sums is even.
4. In the fourth line of your output, you have to print the Rick's number **as an integer** without any leading zeros i.e. if the Rick's number is 02145698, then print 2145698.

Caution

1. The digits of the number m and n may contain zeros
 2. The Rick's number has to be output as an integer without any leading zeros. As mentioned above, if the Rick's number is 02145698, then print 2145698.
 3. Be careful about extra/missing lines and extra/missing spaces.
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INPUT:

m n

OUTPUT:

sum1

sum2

Both/One/Neither

Rick'sNumber

EXAMPLE:

INPUT

1234 5678

OUTPUT:

10

26

Both

51627384

Grading Scheme:

Total marks: **[20 Points]**

There will be partial grading in this question. There are four lines in your output. The first two lines carry 12.5% weightage, the third line carries 25% weightage and the last line carries 50% weightage. Printing each line correctly, in the correct order, will give you the corresponding partial marks. Each visible test case is worth 2 points and each hidden test case is worth 4 points. There are 2 visible and 4 hidden test cases.

Please remember, however, that when you press Submit/Evaluate, you will get a green bar only if all parts of your answer are correct. Thus, if your answer is only partly correct, Prutor will say that you have not passed that test case completely, but when we do autograding afterwards, you will get partial marks.

 **Start Solving!** (/editor/practice/6054)