





Practice Arena

Practice problems aimed to improve your coding skills.


 PRACTICE-02_SCAN-PRINT

 PRACTICE-03_TYPES


 LAB-PRAC-02_SCAN-PRINT


 Mr C goes on a diet


 Permute Password


 Escapes around Tutors

 Amusing Fractions

 P and C

 Build a Rhombus

 Developing Interest at IITK

 Pick your Choice

 Lego Safe

 Race Car

 Reverse Gear


 Numerical Flowers

 LAB-PRAC-01


 PRACTICE-04_COND


 BONUS-PRAC-02

 LAB-PRAC-03_TYPES


 PRACTICE-05_COND-LOOPS

 LAB-PRAC-04_COND


 LAB-PRAC-05_CONDLLOOPS


 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

Reverse Gear

LAB-PRAC-02_SCAN-PRINT

Reverse Gear [20 marks]

Problem Statement

You will be given two positive integers, greater than or equal to 100, but strictly less than 1000 (i.e. these will be 3 digit numbers). For example, we give you 123 and 456. Your first job is to find the digits of the first number. These are 1, 2 and 3. Next, your next job is to compute the number formed if we write these digits in reverse order i.e. in this case it will be the number 321. Your next job is to compute the sum of this reversed number and the second number. In this case, the answer is $321 + 456 = 777$.

Print the digits of the first number (in their original i.e. unreversed order) on 3 different lines followed by the sum of the reversed number and the second number on a different line. For example, in the above case, you have to print

```
1
2
3
777
```

Caution

1. Print all four outputs on four different lines.
2. The numbers you are given may contain zero. Be careful while reversing. For example, if the two numbers are 300 and 500, then after reversing the first number we will get the number 003 which is just 3. In this case the output should be

```
3
0
0
503
```
3. Do not use any datatype other than int.
4. Do not use any library other than stdio.h

HINTS: Visible test cases are there to show you how to give the output as well as warn you if you have extra spaces or extra lines etc in your output.

INPUT:

number1 number2

OUTPUT:

```
digit1
digit2
digit3
sum
```

EXAMPLE:

INPUT

300 500

OUTPUT:

3

0
0
503

Grading Scheme:

Total marks: **[20 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 marks. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 2 points and each hidden test case is worth 4 points. There are 2 visible test cases and 4 hidden test cases.

 **Start Solving!** (</editor/practice/5959>)