





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

Pick your Choice

LAB-PRAC-02_SCAN-PRINT

Pick your choice [20 marks]**Problem Statement**

We will give you 4 distinct digits from 0-9, i.e. no two digits will be the same. The digits will be given to you as integers in increasing order. For example, we may give you 1, 5, 6, 8. Your job is to find the following

1. Find the largest and second largest single digit number you can form out of the given digits and print their sum. E.g., in the above case, the two largest single digit numbers out of the given digits are 8 and 6, and their sum is 14.
2. Find the largest and second largest double digit number you can form out of the given digits and print their sum. Note that no number should repeat digits but the two numbers may share digits. E.g., in the above case, the two largest double digit numbers out of the given digits are 86 and 85, and their sum is 171. Note that no number repeats digits although the digit 8 is shared across the numbers.
3. Find the largest and second largest triple digit number you can form out of the given digits and print their sum. No number should repeat digits but the two numbers may share digits. E.g., in the above case, the sum of the two largest triple digit numbers out of the given digits is 1726.

Caution

1. Print all three numbers on different lines.
2. The four digits given to you are distinct and are given in increasing order.
3. The two double digit numbers you construct should not repeat digits but the two numbers may share digits.
4. The two triple digit numbers you construct should not repeat digits but the two numbers may share digits.
5. Do not use any datatype other than int.
6. 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:

digit1 digit2 digit3 digit4

OUTPUT:

sum1

sum2

sum3

EXAMPLE:

INPUT

1 5 6 8

OUTPUT:

14

171

1726

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/5956)