

The contest is in progress. It ends 4 days from now.

Contests > IEEEExtreme 7.0 (WarmUp Session) >

## Demo\_Problem\_AA Max Score: 100pts dynamic

Problem

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Vangelis the bear and his older brother Mitsos got bored of Sudoku and so decided to create a logic-based, combinatorial, number-placement puzzle of their own to play. The game they created is quite simple:

1. One of the bears, shuffles a series A of N consecutive and unique numbers (where  $0 < N \leq 20.000$  and  $0 < A_i \leq N$ )
2. Creates 5 copies of the series and with each copy:
3. Takes a random number, that was never moved in a previous copy, and moves it to a random location
4. The 5 variations are then given to the second bear, which is asked to retrieve the original sequence.

Notes: Sometimes a variation could be exactly the same as the original series.  
Task

Your task is to calculate the original series after receiving the 5 copies.

## Input Format

Your program will read  $5N+1$  lines. The first line will contain number N. Lines 2..N+1: each will contain one number that belongs to the first copy Lines N+2..2N+1: each will contain one number that belongs to the second copy Rest of the lines: similar.

## Output Format

Your program should print the original series, one number per line.

Sample Input 1:

5  
4  
1  
3  
2  
4  
5  
1  
3  
2  
1  
5  
4  
3  
2  
3  
5  
4  
1  
2  
2  
5  
4  
1  
3

Sample Output 1

5  
4  
1  
3  
2

Details

In the above example, the original series is 5,4,1,3,2. The 5 copies are the following:

5,4,1,3,2 -- number 2 was moved to position 5  
4,5,1,3,2 -- number 4 was moved to position 1  
1,5,4,3,2 -- number 1 was moved to position 1  
3,5,4,1,2 -- number 3 was moved to position 1  
2,5,4,1,3 -- number 5 was moved to position 1

Suggest Edits

EmacsNormalVim

Select Language: C

save code

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <math.h>
4 #include <stdlib.h>
5
6 int main() {
7
8     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
9     return 0;
```

```
10 }  
11
```

Line: 1 Col: 1 Count: 190

☐ Use a custom test case

 Upload Code as File

Compile & Test

Submit Code

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