

Coding Arena



A B C D E

Problem : Bob's Lists

Students study Physics and Maths. List A contains Ids of students studying Physics. List B contains Ids of students studying Maths. Bob from admin department is compiling various different lists for the purpose of arranging seminars in the institute.

Your task is to help Bob compile the following lists

- Students studying Physics or Maths
- Students studying Physics and Maths
- Students studying Physics but not Maths

An Id should be listed in individual lists exactly once. Since it is easy to maintain sorted lists, also sort all lists.

Input Format:

First line contains **T**, number of test cases.

Each test case consists of:

1. First line contains Ids of students studying Physics (space-delimited integers)
2. Second line contains Ids of students studying (space-delimited integers)

Output Format:

For each test case print three lines.

1. First line should print list of Ids studying Physics or Maths
2. Second line should print list of Ids studying Physics and Maths
3. Third line should print list of Ids studying Physics but not Maths

All three lists above should be printed in sorted order (smallest Id to largest Id) and delimited by space.

In case, if any of the list is empty, print "Empty List" on corresponding line.

Constraints:

$$1 \leq T \leq 10$$

$$1 \leq |A| \leq 1000$$

$$1 \leq |B| \leq 1000$$

Sample Input and Output

SNo.	Input	Output
1	1 1 2 5 9 7 4 1 3 6 9	1 2 3 4 5 6 7 9 1 9 2 4 5 7
2	1 1 2 3 4 5 6 7 8 9	1 2 3 4 5 6 7 8 9 Empty List 1 2 3 4 5

Note:

Please do not use package and namespace in your code. For object oriented languages your code should be written in one class.

Time Left

05 56 29
hr min sec

Rules & Regulations

Note:

Participants submitting solutions in C language should not use functions from <conio.h> / <process.h> as these files do not exist in gcc

Note:

For C and C++, return type of main() function should be int.

Submit Answer

☐ I, **BASANT BHALA** confirm that the answer submitted is my own.

Browse...

Submit



© 2015 Tata Consultancy Services Limited. All Rights Reserved. In Association with



Campus Commune

[Privacy Policy](#)

