Problem Name

Description:

You will be given three pairs of integers, which denotes the starting and ending time in seconds of three classes.

The task is very simple. You have to assign three classrooms for the classes and find the total class time. Class time is when at least one class is running.

Input:

First line will contain a positive integer T<=100, denoting the number of test cases. Each of next T lines will contain 6 space separated integers denoting a\_1, b\_1, a\_2, b\_2, a\_3, b\_3. a\_i and b\_i are the starting and finishing time respectively, of the i^{th} class. All the values except T will have an absolute value less than or equal to 10^6.

Output:

For each test case print the time required.