



Practice Mode Rank: 677 Score: 0

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Kickstart Practice Round 2018

A. GBus count[B. Googol String](#)[C. Sort a scrambled itinerary](#)[D. Sums of Sums](#)[Ask a question](#)[View my submissions](#)

Submissions	
GBus count	
9pt	Not attempted 662/821 users correct (81%)
15pt	Not attempted 628/659 users correct (95%)
Googol String	
7pt	Not attempted 377/425 users correct (89%)
12pt	Not attempted 247/353 users correct (70%)
Sort a scrambled itinerary	
11pt	Not attempted 383/421 users correct (91%)
15pt	Not attempted 352/382 users correct (92%)
Sums of Sums	
8pt	Not attempted 228/273 users correct (84%)
28pt	Not attempted 37/150 users correct (25%)

Top Scores	
Artie	105
Ayush.Agrawal	105
zzxzzxz	105
mr.Nilesh	105
Doju	105
VietaFan	105
JohnSmith	105
wilsonlym	105
pedrosorio	105
ivanilos	105

Problem A. GBus count

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input
9 points

Solve A-small

Large input
15 points

Solve A-large

Problem

There exists a straight line along which cities are built.

Each city is given a number starting from 1. So if there are 10 cities, city 1 has a number 1, city 2 has a number 2,... city 10 has a number 10.

Different buses (named GBus) operate within different cities, covering all the cities along the way. The cities covered by a GBus are represented as 'first_city_number last_city_number' So, if a GBus covers cities 1 to 10 inclusive, the cities covered by it are represented as '1 10'

We are given the cities covered by all the GBuses. We need to find out how many GBuses go through a particular city.

Input

The first line contains the number of test cases (**T**), after which **T** cases follow each separated from the next with a **blank** line.

For each test case,

The first line contains the number of GBuses (**N**)

Second line contains the cities covered by them in the form

a₁ b₁ a₂ b₂ a₃ b₃...a_n b_n

where GBus1 covers cities numbered from a₁ to b₁, GBus2 covers cities numbered from a₂ to b₂, GBus3 covers cities numbered from a₃ to b₃, upto **N** GBuses.

Next line contains the number of cities for which GBus count needs to be determined (**P**).

The below **P** lines contain different city numbers.

Output

For each test case, output one line containing "Case #T:" followed by **P** numbers corresponding to the number of cities each of those **P** GBuses goes through.

Limits

1 ≤ **T** ≤ 10

a_i and **b_i** will always be integers.

Small dataset

1 ≤ **N** ≤ 50

1 ≤ **a_i** ≤ 500, 1 ≤ **b_i** ≤ 500

1 ≤ **P** ≤ 50

Large dataset

1 ≤ **N** ≤ 500

1 ≤ **a_i** ≤ 5000, 1 ≤ **b_i** ≤ 5000

1 ≤ **P** ≤ 500

Sample**Input**

```
2
4
15 25 30 35 45 50 10 20
2
15
25

10
10 15 5 12 40 55 1 10 25 35 45 50 20 28 27 35 15 40 4 5
3
5
10
27
```

Output

```
Case #1: 2 1
```

Case #2: 3 3 4

Explanation for case 1:

2 GBuses go through city 15 (GBus1 [15 25] and GBus4 [10 20])

1 GBus goes through city 25 (GBus1 [15 25])

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