Task A

Problem:

When users post an update on social media, such as a URL, image, status update etc., other users in their network are able to view this new post on their news feed. Users can also see exactly when the post was published, i.e, how many hours, minutes or seconds ago.

Since sometimes posts are published and viewed in different time zones, this can be confusing. You are given two timestamps of one such post that a user can see on his newsfeed in the following format:

Day dd Mon yyyy hh:mm:ss +xxxx

Here +xxxx represents the time zone. Your task is to print the absolute difference (in seconds) between them.

Input Format:

The first line contains T, the number of test cases.

Each test case contains 2 lines, representing time t1 and time t2.

Constraints:

- 1. Input contains only valid timestamps
- 2. year<=3000

Output Format:

Print the absolute difference (t1-t2) in seconds.

Sample Input:

2

Sun 10 May 2015 13:54:36 -0700 Sun 10 May 2015 13:54:36 -0000 Sat 02 May 2015 19:54:36 +0530 Fri 01 May 2015 13:54:36 -0000

Sample Output:

25200

88200

Explanation:

In the first query, when we compare the time in UTC for both the time stamps, we see a difference of 7 hours. which is 7x3600 seconds or 25200 seconds.

Similarly, in the second query, time difference is 5 hours and 30 minutes for time zone adjusting for that we have a difference of 1 day and 30 minutes. Or $24x3600+30x60 \Rightarrow 88200$

Task B

Build a python service which will take Task A as an input(plain text with new line) through python rest api. Output will be the same as Task A as response. Response will be an ordered json array with the result.

Example: ["25200", "88200"]

Please Note that, you have to provide a readme file with the process of running this application.

Task C

Make your app containerize(docker) and run at least two images so that any app instance can provide the result as response. Also add node id from which node it is serving.

```
Example:
{
    "id":"YOUR_NODE_ID",
    "result":[ "25200", "88200"]
```

}

Please Note that, you have to provide a readme file with the process of running this application.

Commit all your tasks in git repo and share the link with us.