



Time Delta ★

64/115 challenges solved

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Problem

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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 testcases.

Each testcase contains 2 lines, representing time t_1 and time t_2 .

Constraints

- Input contains only valid timestamps
- $year \leq 3000$.

Output Format

Print the absolute difference $(t_1 - t_2)$ in seconds.

Sample Input 0

```
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 0

```
25200
88200
```

Explanation 0

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 7×3600 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

$$24 \times 3600 + 30 \times 60 \Rightarrow 88200$$

```
1  #!/bin/python3
2
3  import math
4  import os
5  import random
6  import re
7  import sys
8  from datetime import datetime
9
10 # Complete the time_delta function below.
11 def time_delta(t1, t2):
12     # Define the format string to match the input
13     fmt = '%a %d %b %Y %H:%M:%S %z'
14
15     # Parse the timestamps into datetime objects
16     dt1 = datetime.strptime(t1, fmt)
17     dt2 = datetime.strptime(t2, fmt)
18
19     # Calculate the absolute difference in seconds
20     return str(abs(int((dt1 - dt2).total_seconds()))))
21
22 if __name__ == '__main__':
23     fptr = open(os.environ['OUTPUT_PATH'], 'w')
24
25     t = int(input())
26
27     for t_itr in range(t):
28         t1 = input()
29
30         t2 = input()
31
32         delta = time_delta(t1, t2)
33
34         fptr.write(delta + '\n')
```

EMACS

Line: 37 Col: 1

 Upload Code as File☐ Test against custom input

Run Code

Submit Code

You have earned 30.00 points!

64/115 challenges solved.

56%




Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

 Test case 0

Compiler Message

✓ Test case 1 

Success

✓ Test case 2 

Input (stdin)

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1	2
2	Sun 10 May 2015 13:54:36 -0700
3	Sun 10 May 2015 13:54:36 -0000
4	Sat 02 May 2015 19:54:36 +0530
5	Fri 01 May 2015 13:54:36 -0000

Expected Output

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1	25200
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