

Clock

Lili usually use 24-hour clock on her phone. She just got a new phone from her mother as a gift. The default time format for her new phone is 12-hour clock but she doesn't know how to change the time format. So she need your help to convert 12-hour clock to 24-hour clock.

Format Input

The first line of the input contains an integer T, the number of test case. The next T line contains hh:mm aa, time in 12-hour clock (hour, minute, am/pm)

Format Output

For each test case, print "Case #X: Y" with X is the number of test case starting at 1 and Y is the time with 24-hour clock format with 2 digits' hour and minute.

Constraints

- $1 \le T \le 1000$
- $01 \le hh \le 12$
- $00 \le mm \le 59$
- It is guaranteed that aa always "am" or "pm"

Sample Input (standard input)

```
5
12:00 am
12:00 pm
04:30 am
04:30 pm
11:59 pm
```

Sample Output (standard output)

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COMP6047 – Algorithm and Programming



Case #1: 00:00 Case #2: 12:00 Case #3: 04:30 Case #4: 16:30 Case #5: 23:59



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Lili terbiasa dengan menggunakan jam dengan format 24 jam di ponselnya. Ibunya baru saja mendapatkan ponsel baru untuk Lili sebagai hadiah. Format waktu awal dari ponsel tersebut adalah format 12 jam. Karena Lili tidak tahu bagaimana mengubah format tersebut menjadi format 24 jam, Bantulah Lili dengan mengubah waktu dalam format 12 jam menjadi 24 jam.

Format Input

Baris pertama input merupakan bilangan bulat positif T, jumlah dari kasus uji. T baris berikutnya merupakan hh:mm aa, waktu dalam format 12 jam (jam, menit, am/pm)

Format Output

Untuk setiap kasus uji, output "Case #X: Y" dengan X adalah nomor kasus uji mulai dari 1 dan Y adalah waktu dengan format 24 jam dengan 2 digit angka jam dan 2 digit angka menit.

Constraints

- 1 < T < 1000
- $01 \le hh \le 12$
- 00 < mm < 59
- Dijamin aa selalu "am" atau "pm"

Sample Input (standard input)



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Sample Output (standard output)

Case #1: 00:00 Case #2: 12:00 Case #3: 04:30 Case #4: 16:30 Case #5: 23:59



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