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Buritomath

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Time Conversion



by vatsalchanana

Problem

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Given a time in **12-hour AM/PM format**, convert it to military (**24-hour**) time.

Note: Midnight is **12:00:00AM** on a **12-hour** clock, and **00:00:00** on a **24-hour** clock. Noon is **12:00:00PM** on a **12-hour** clock, and **12:00:00** on a **24-hour** clock.

Input Format

A single string containing a time in **12-hour** clock format (i.e.: **hh:mm:ssAM** or **hh:mm:ssPM**), where $01 \leq hh \leq 12$ and $00 \leq mm, ss \leq 59$.

Output Format

Convert and print the given time in **24-hour** format, where $00 \leq hh \leq 23$.

Sample Input

```
07:05:45PM
```

Sample Output

```
19:05:45
```

[f](#) [t](#) [in](#)Submissions: [186169](#)

Max Score: 15

Difficulty: Easy

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Current Buffer (saved locally, editable)

C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 #include <sstream>
7 using namespace std;
8
9 int main(){
10     string time;
11     cin >> time;
12     bool convert = time[time.length() - 2] == 'P';
13     time = time.substr(0, time.length() - 2);
14
15     if (time.substr(0, 2) == "12" && !convert) {
16         time = "00" + time.substr(2, time.length() - 2);
17     } else if (time.substr(0, 2) != "12" && convert) {
18         int number;
19         stringstream(time.substr(0, 2)) >> number;
20         number += 12;
21         time = std::to_string(number) + time.substr(2, time.length() - 2);
22     }
23
24     cout << time;
25     return 0;
26 }
```

Line: 8 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

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