Problem:

Given a time in -hour AM/PM format, convert it to military (-hour) time.
Note: Midnight is on a -hour clock, and on a -hour clock. Noon is on a -hour clock, and on a -hour clock.

Input Format

A single string containing a time in -hour clock format (i.e.: or), where and .

Output Format

Convert and print the given time in -hour format, where .

Sample Input

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

Sample Output

```
19:05:45
```

Solution:

```
#include <cmath>
#include<string.h>
#include<ctype.h>
#include <cstdio>
#include <vector>
#include <iostream>
#include <algorithm>
using namespace std;



int main() {
    /* Enter your code here. Read input from STDIN. Print output
to STDOUT */
```

```
    int hour, minute, second;
    char char1, char2, colan;
    cin>>hour >>colan >>minute >>colan >>second >>char1 >>char2;

    if(hour==12  && char1=='A') { cout<<"00" ; }
             //for the midnight 12am case --> 00 hours
    if( (hour < 12 && char1=='A') ) {cout<<"0"<<hour; }
             //from 12AM to 12PM ------- Midnight to noon
    if(hour==12 && char1=='P') {cout<<hour; }
             //for 12pm noon case;
    if(hour < 12 && char1=='P' ) {cout<<hour+12; }
              //from the 12pm of noon to 12am night case
    (minute<10 ? cout<<":0"<<minute : cout<<colan<<minute);
    (second<10 ? cout<<":0"<<second : cout<<colan<<second);

    return 0;
}
```

----- Scroll down to the next for more elegant solution --------

More Elegant solution:

```
int main(){
   int hour, minute, second;
   char ch, char1;


   cin>>hour >>ch >>minute >>ch >>second >>char1 >>ch;


   hour= (hour<12 && char1=='P' ? hour+12 : (hour==12 && char1=='A'
                                              ? 0: hour ));
   cout <<setw(2) <<setfill('0') <<hour <<":"
        <<setw(2) <<setfill('0') <<minute <<":"
        <<setw(2) <<setfill('0') <<second;

   //The setfill compensates for the missing 0
    return 0;
}
```