

Time Conversion ☆

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Editorial by [vatsalchanana](#)

We only need to change the hours to convert the time from an AM/PM format to 24 hour format. We need to add +12 to the hours if the time is in PM. We need to take care of 12:mm:ssAM types additionally as 12:mm:ssAM in a 24 hour format is 00:mm:ss. 12:mm:ssPM type values in 24 hour format are in the form 12:mm:ss.

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C++

```
#include<iostream>
#include<cstdio>

using namespace std;

int main() {
    string s;
    cin >> s;

    int n = s.length();
    int hh, mm, ss;
    hh = (s[0] - '0') * 10 + (s[1] - '0');
    mm = (s[3] - '0') * 10 + (s[4] - '0');
    ss = (s[6] - '0') * 10 + (s[7] - '0');

    if (hh < 12 && s[8] == 'P') hh += 12;
    if (hh == 12 && s[8] == 'A') hh = 0;

    printf("%02d:%02d:%02d\n", hh, mm, ss);

    return 0;
}
```

Python

```
s = raw_input()
zn = s[-2:]
if zn == "PM" and s[:2] != "12":
    s = str(12 + int(s[:2])) + s[2:]
if zn == "AM" and s[:2] == "12":
    s = "00" + s[2:]
print s[:-2]
```

Perl

```
use strict;
use warnings;

my $time1=<>;
chomp($time1);
my @h=split(':', $time1);
if(($time1 =~ /AM$/) && ($h[0] ==12)){
    $h[0]=0;
}
if(($time1 =~ /PM$/) && ($h[0] !=12)){
    $h[0]+=12;
}
$h[0]="0$h[0]" if(length($h[0])==1);
$time1 =~ s/(\d+)/$h[0]/;
$time1 =~ s/[A|P]M//;
print $time1;
```

Ruby

STATISTICS

Difficulty: **Easy**Time Complexity: **O(1)**Required Knowledge: **Implementation**Publish Date: **Jun 09 2015**

This is a Practice Challenge

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```
def parse_time(time)
  hours,minutes,seconds,modifier = time.delete(":").scan(/\w{2}/)
  [correct_hours(hours,modifier),minutes,seconds].join(':')
end
def correct_hours(hours,modifier)
  if modifier == "PM" && hours.to_i != 12
    (hours.to_i + 12)
  elsif hours.to_i == 12 and modifier == "AM"
    hours = "00"
  else
    hours
  end
end
puts parse_time(gets.chomp)
```

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