

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

Note: - 12:00:00AM on a 12-hour clock is 00:00:00 on a 24-hour clock.

-> 12:00:00PM on a 12-hour clock is 12:00:00 on a 24-hour clock.

Example

s='12:00:01PM'

Return '12:01:00'.

s='12:00:01AM'

Return '00:01:00'.

Input Format

A single string s that represents a time in 12-hour clock format (i.e.:hh:mm:ssAM or hh:mm:ssPM ).

Constraints

All input times are valid

Sample Input 0

07:05:45PM

Sample Output 0

19:05:45