Day – 49 of the #101 days of coding challenge----------

Problem:- Complete the *timeConversion* function in the editor below. It should return a new string representing the input time in 24 hour format.

timeConversion has the following parameter(s):

- *string s*: a time in hour format

onstraints

- All input times are valid

Sample Input

07:05:45PM

Sample Output

19:05:45

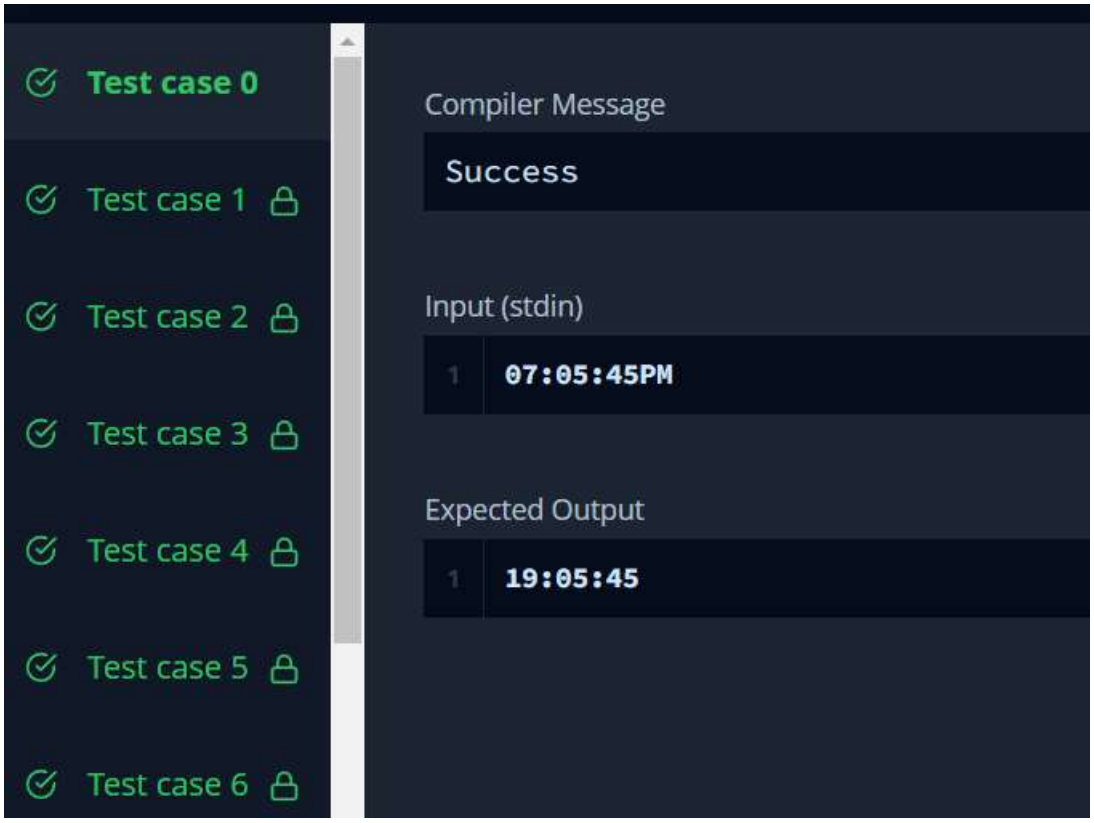
Code:-

```
string timeConversion(string s) {
    int n = s.length();

    // Check if the time is in PM and convert hours accordingly
    if (s[n - 2] == 'P' && s[n - 1] == 'M') {
        // Extract hours, minutes, and seconds from the input
string
```

```
        int hours = stoi(s.substr(0, 2));
        int minutes = stoi(s.substr(3, 2));
        int seconds = stoi(s.substr(6, 2));

        // Convert hours to 24-hour format if it's not 12 PM
        if (hours != 12) {
            hours += 12;
        }

        // Construct the 24-hour formatted string
        return to_string(hours) + s.substr(2, 6);
    }
    // Check if the time is in AM and convert hours accordingly
    else if (s[n - 2] == 'A' && s[n - 1] == 'M') {
        // Extract hours, minutes, and seconds from the input string
        int hours = stoi(s.substr(0, 2));

        // Convert 12 AM to 00 AM
        if (hours == 12) {
```

```
            hours = 0;
        }


        // Construct the 24-hour formatted string
        return (hours < 10 ? "0" : "") + to_string(hours) +
s.substr(2, 6);
    }
    // Invalid input format
    else {
        return "Invalid input format";
    }
}
```

Output:-


Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5
Test case 6
Compiler Message
Success
Input (stdin)
1 07:05:45PM
Expected Output
1 19:05:45