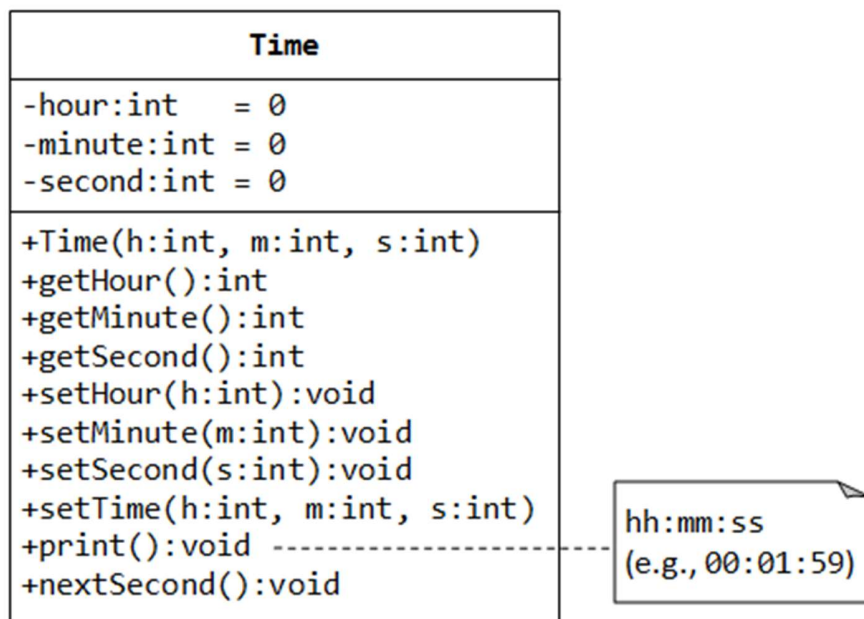


1. Write a class called Time, which models a specific instance of time with hour, minute and second values, as shown in the class diagram.

The class Time contains the following members:

- I. Three private data members: hour (0-23), minute (0-59) and second (0-59), with default values of 0.
- II. A public constructor Time(), which initializes the data members hour, minute and second with the values provided by the caller.
- III. public getters and setters for private data members: getHour(), getMinute(), getSecond(), setHour(), setMinute(), and setSecond().
- IV. A public publi
- V. A public member function print() to print this Time instance in the format "hh:mm:ss", zero-filled, e.g., 01:30:04.
- VI. A public member function nextSecond(), which increase this instance by one second. nextSecond() of 23:59:59 shall be 00:00:00.



2. Predict the output of the following code.

```
using namespace std;
```

```
int main () {
```

```
    string str = "This*is^a.45min test.";
```

```
    int i; for (i = 0; i < str.length( ); i++)
```

```
    { if (ispunct(str[i])) str[i] = ' '; // a blank str[i] = tolower (str[i]); }
```

```
    cout << str; }
```

What is printed by the last line of the code?