```
// Version 1
public class Time {
    private int hour;
    private int minute;
    private int second;

    public void setTime(int h, int m, int s) {
        // validate hour
        hour = ((h >= 0 && h < 24) ? h : 0);
        // validate minute
        minute = ((m >= 0 && m < 60) ? m : 0);
        // validate second
        second = ((s >= 0 && s < 60) ? s : 0);
    }

    // convert to string in the form H:M:S
    public String toUniversalString() {
        return hour + ":" + minute + ":" + second;
    }

    // convert to string in the form H:M:S AM or PM
    public String toString() {
        return ((hour == 0 || hour == 12) ? 12 : hour % 12)
                + ":" + minute
                + ":" + second
                + " " + (hour < 12 ? "AM" : "PM");
    }
}
```

```java
public class TimeTest {
  public static void main( String[] args ) {
    Time time = new Time();

    // output string representations of the time
    System.out.print( "The initial universal time is: " );
    System.out.println( time.toUniversalString() );
    System.out.print( "The initial standard time is: " );
    System.out.println( time.toString() );
    System.out.println();

    // change time and output updated time
    time.setTime( 13, 27, 6 );
    System.out.print( "Universal time after setTime is: " );
    System.out.println( time.toUniversalString() );
    System.out.print( "Standard time after setTime is: " );
    System.out.println( time.toString() );
    System.out.println();
  }
}
```

```java
// Version 2
public class Time {
  private int seconds; // # of seconds since midnight

  public void setTime(int h, int m, int s) {
    // validate hour
    int hour = ((h >= 0 && h < 24) ? h : 0);
    // validate minute
    int minute = ((m >= 0 && m < 60) ? m : 0);
    // validate second
    int second = ((s >= 0 && s < 60) ? s : 0);

    seconds = ((hour * 60) + minute) * 60 + second;
  }

  // convert to String in universal-time format (HH:MM:SS)
  public String toUniversalString() {
    int hour = seconds / 60 / 60;
    int minute = (seconds / 60) % 60;
    int second = seconds % 60;
    return hour + ":" + minute + ":" + second;
  }

  // convert to standard-time format (H:MM:SS AM or PM)
  public String toString() {
    int hour = seconds / 60 / 60;
    int minute = (seconds / 60) % 60;
    int second = seconds % 60;
    return ((hour == 0 || hour == 12) ? 12 : hour % 12)
        + ":" + minute
        + ":" + second
        + " " + (hour < 12 ? "AM" : "PM");
  }
}
```