import java.util.Scanner;

public class Lab2\_LoopingThruTime {

public static void main(String[] arg){

Scanner scnr = new Scanner(System.in);

int hours, minutes, seconds;

//Statements prompts and gets user input for hours:minutes:seconds.

System.out.print("Enter a hour of the day 0-23: ");

hours = scnr.nextInt();

System.out.print("Enter a minute of a hour 0-59: ");

minutes = scnr.nextInt();

System.out.print("Enter a second of a minute 0-59: ");

seconds = scnr.nextInt();

System.out.print("User entered:\nhours: " +hours + "\nminutes: " + minutes + "\nseconds: " +seconds +"\n");

while(hours <= 22){ //the final loop stops when hours = 23

if (minutes == 60){ //resets minutes when minutes = 60

minutes = 0;

hours++; //increments hours by one

}

while(minutes <= 59){

if (seconds == 60){ //while loop resets seconds when seconds = 60.

seconds = 0;

minutes++; //increments minutes by one

if (minutes == 60){ //loop exits when minutes = 60

break;

}

}

while (seconds <= 59){ //prints output and increments seconds by one

System.out.println("["+hours + ":" + minutes + ":" + seconds+"]");

seconds++;

}

}

}

}

}