

## TimeInterval

Write a program that prompts the user to enter two times in 24-hour format and then displays the length of the time interval between these two times. If the first time entered comes after the second time that the program displays "Time interval: NOT VALID". Otherwise it displays the time interval in hours and minutes.

It is easiest if you convert the entered times into minutes and convert them into hours and minutes before printing the interval. Here the remainder-operator '%' can come to rescue. If any of the two entered times is not between 00:00 and 23:59 the program displays the error message "Time format error".

## Examples

(Text in red = user input)

```
Enter start time: 1220
Enter end time: 1435
Time interval: 2:15
```

```
Enter start time: 1220
Enter end time: 700
Time interval: NOT VALID
```

```
Enter start time: 2320
Enter end time: 2420
Time format error.
```

## Hint

It is easiest if you convert the entered times into minutes and convert them into hours and minutes before printing the interval. Here the remainder-operator % can come to rescue.