

# Artificium

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## A Weird Clock

Runtime Limit – 3s

### Problem Statement

Julian's kids played with their alarm clock, and now the embedded projector displays the time ...

well ... upside down on the wall : reversed horizontally and vertically !

More explicitly, on the their room's wall the digits are now in reversed order, and :

- 0 is now readable as 0 or 0,
- 1 is now readable as i or 1,
- 2 is still displayed 2,
- 3 is now readable as E,
- 4 is now readable as h,
- 5 is now readable as S or 5,
- 6 is now readable as 9,
- 7 is now readable as L,
- 8 is still displayed 8,
- 9 is now readable as 6.

Given a *readableText*, output the *realTime* formatted as H:mm.

Be careful, some texts may now refer to invalid time !

If the *realTime* is not valid, output instead one or more lines to explain what is wrong, using the following format :

-> if *hours* is NOT valid => then print Error *hours* hours

-> if *minutes* is NOT valid => then print Error *minutes* minutes

### Format

#### Input

**Line 1 :** the *readableText* (string) projected on the wall

## Output

If *realTime* is valid => then print the *realTime* in 24 hours format H:mm

If *realTime* is NOT valid => then output one or more lines to explain what is wrong :

-> if *hours*  $\geq 24$  => print Error *hours* hours

-> if *minutes*  $\geq 60$  => print Error *minutes* minutes

## Constraints

*readableText* always contains the : separator

$0 \leq \textit{hours} \leq 99$

$0 \leq \textit{minutes} \leq 99$

## Sample

### Input

hE:2i

### Output

12:34