A. Karen and Morning

time limit per test: 2 seconds
memory limit per test: 512 megabytes
input: standard input
output: standard output

Karen is getting ready for a new school day!

It is currently `hh:mm`, given in a 24-hour format. As you know, Karen loves *palindromes*, and she believes that it is good luck to wake up when the time is a palindrome.

What is the minimum number of minutes she should sleep, such that, when she wakes up, the time is a palindrome?

Remember that a palindrome is a string that reads the same forwards and backwards. For instance, `05:39` is not a palindrome, because `05:39` backwards is `93:50`. On the other hand, `05:50` is a palindrome, because `05:50` backwards is `05:50`.

Input

The first and only line of input contains a single string in the format `hh:mm` ($00 \leq$ `hh` ≤ 23, $00 \leq$ `mm` ≤ 59).

Output

Output a single integer on a line by itself, the minimum number of minutes she should sleep, such that, when she wakes up, the time is a palindrome.

Examples

input
05:39
output
11

input
13:31
output
0

input
23:59
output
1

Note

In the first test case, the minimum number of minutes Karen should sleep for is 11. She can wake up at `05:50`, when the time is a palindrome.

In the second test case, Karen can wake up immediately, as the current time, `13:31`, is already a palindrome.

In the third test case, the minimum number of minutes Karen should sleep for is 1 minute. She can wake up at `00:00`, when the time is a palindrome.