# The next and the previous palindrome 

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English version

## Input

The input consist of unknown number (lower than 100) of tests. Each test is a line with two integers $\mathbf{x}$ and $\mathbf{y}\left(0<=\mathbf{x}<=2^{*} 10^{9}\right.$, length of $\mathbf{y}$ is at most 1000).

## Output

For each test You should print:

- the next palindrome of $\mathbf{y}$ - if $\mathbf{x}$ is even
- the previous palindrome of $\mathbf{y}$ - if $\mathbf{x}$ is odd


## Example

Input:
109029
119029

Output:
9119
9009
Note: Leading zeroes don't occur in the input and shouldn't occur in the output.

