Given a number X, find the minimum value t such that X - t gives a palindrome.

Example: X = 5000, then the largest palindrome less than 5000 is 4994. Therefore, t = 6.

The input consists of the value X. Print the value of largest palindrome and t in the output.

Constraints: 1 <= X <= 10^5

Sample input(1):

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10000

Sample output(1):

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999 1

Sample input(2):

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3456

Sample output(2):

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3443 13