

## Write a function to reverse a string in-place ☐.

Since strings in Python are  $\underline{immutable}$ , first convert the string into a list of characters, do the in-place reversal on that list, and re-join that list into a string before returning it. This isn't technically "in-place" and the list of characters will cost O(n) additional space, but it's a reasonable way to stay within the spirit of the challenge. If you're comfortable coding in a language with mutable strings, that'd be even better!

## **Breakdown**

In general, an "in-place □" algorithm will require swapping elements.

## **Solution**

We swap the first and last characters, then the second and second-to-last characters, and so on until we reach the middle.

## **Complexity**

O(n) time and O(1) space.

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