



Write a method that takes an array of characters and reverses the letters in place.↴

Why an array of characters instead of a string?

The goal of this question is to practice manipulating strings *in place*. Since we're modifying the input, we need a mutable type like an array, instead of Java's *immutable* strings.

## 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.

```
public static void reverse(char[] arrayOfChars) {  
  
    int leftIndex = 0;  
    int rightIndex = arrayOfChars.length - 1;  
  
    while (leftIndex < rightIndex) {  
  
        // swap characters  
        char temp = arrayOfChars[leftIndex];  
        arrayOfChars[leftIndex] = arrayOfChars[rightIndex];  
        arrayOfChars[rightIndex] = temp;  
  
        // move towards middle  
        leftIndex++;  
        rightIndex--;  
    }  
}
```

## Complexity

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

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