Next, look at the body. The program uses braces to combine several statements into a single unit. In the body, the program reverses the word by switching the first element of the array with the last element. Then, it increments \( j \) and decrements \( i \) so that they now refer to the next-to-the-first element and the next-to-the-last element. After this is done, the program swaps those elements. Note that the test condition \( j<i \) makes the loop stop when it reaches the center of the array. If it were to continue past this point, it would begin swapping the switched elements back to their original positions. (See Figure 5.2.)

Figure 5.2. Reversing a string.

Another thing to note is the location for declaring the variables \( \text{temp}, \ i, \ \text{and} \ j \). The code