Solution: Sort and Reverse Elements of an Array

This lesson provides a solution to the challenge given in the previous lesson.

we'll cover the following ^ Solution Code explanation

Solution

Here is the code that will sort and reverse elements of an array.

```
import std.stdio;
import std.algorithm;
void SortAndReverse() {
   int[] values=[ 20, 13, 4, 9, 11 ];
   // The counter is commonly named as 'i'
   int i;
   writeln("Sorted Elements: ");
   sort(values);
   i = 0;
   while (i < values.length) {</pre>
       write(values[i], " ");
       ++i;
   writeln();
   writeln("Reversed Elements: ");
   reverse(values);
   i = 0;
   while (i < values.length) {</pre>
       write(values[i], " ");
       ++i;
   writeln();
```







Code to sort and reverse elements of an array

Code explanation

In the above code, we are particularly interested in three lines:

• Line 5:

```
int[] values=[ 20, 13, 4, 9, 11 ];
```

Here, we are declaring an array named values. Also, we are initializing the array with five integer values, which will be sorted and reversed later in the code.

• Line 11:

```
sort(values);
```

In this line, we are calling the function **sort** to achieve our first objective of the program, which is to sort the elements of the array **values**.

• Line 15:

```
write(values[i], " ");
```

This line of code makes sure that array elements are displayed spaceseparated, which is the desired output format.

• Line 21:

```
reverse(values);
```

This part of the code uses the reverse function to achieve the second objective of our program, which is to reverse the elements in the array values.

In the next lesson, we will learn about slices and other array features.