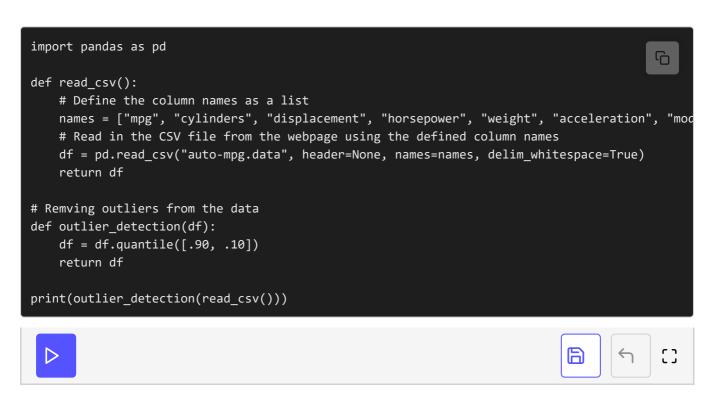
Solution Review: Cleaning Auto MPG Dataset

This lesson provides the solution to the previous challenge.

we'll cover the following ^
• Cleaning the dataset

Cleaning the dataset



According to the problem statement, we need to find percentile from the data **Auto MPG Dataset** of all columns. Before doing it, we have to read the data first. There is no need to explain how to read the data, as we studied that in detail previously. Dataset is read from **line 4** to **line 8**.

Moving towards the main implementation, look at the header of the outlier_detection(df) function at line 11. It takes *one* arguments as input:

• df: A dataframe containing the dataset in the form of a matrix.

Line 12 is the most important line. We are using a built-in function

quantile() on df which takes one argument: [.90, .10]. We are specifying

the range for quartile that it should be between **0.90** and **0.10**. It will return *two* numbers in a list for each column.

At **line 15** we are calling the function <code>outlier_detection(read_csv())</code>. First control will transfer to <code>read_csv()</code> at **line 3** and we'll get a dataframe. Then control will go to **line 11** and 90th and 10th percentile will be returned for each column.

For the result, you will notice that percentiles are printed. For example, the 90th and 10th percentile for mpg is **34.33** and **14.00** respectively.

That's it about the main concepts regarding cleaning the dataset using Pandas.

The next chapter explains how to visualize a dataset using the seaborn library.