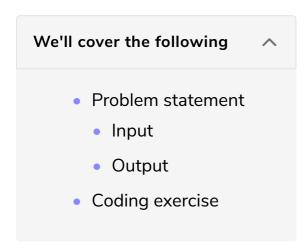
Challenge: Summing and Swapping

In this challenge, pandas is used to sum the minimum and maximum values of the rows and columns of a DataFrame, which are then swapped.



Problem statement

We have to implement the function <code>Sum_Swap(df)</code>. The <code>df</code> is the <code>DataFrame</code> on which operations will be performed. The task is to create a new column and a new row and then swap their values. The following steps are performed to calculate the values for the new row and column before swapping:

- 1. The sum of the minimum and maximum values of each row are calculated.
- 2. These values are assigned to the new column row_sum.
- 3. The sum of the minimum and maximum value of each column are calculated.
- 4. These values are assigned to the new row col_sum.
- 5. Finally, the new row and column values are swapped.

Input

The input to the function is a DataFrame with random data. The following is just an example of what the input DataFrame would look like.

```
0 1 2 3
0 12 2 3 44
1 40 1 34 9
2 6 99 56 69
```

3 2 24 4 /1

Output

The output is a <code>DataFrame</code> with a new row and column. The following is an example of what the output of the above input <code>DataFrame</code> would look like after summing and swapping the row and column.

```
0 1 2 3 row_sum

0 12 2 3 44 42

1 40 1 34 9 100

2 6 99 56 69 59

3 2 24 4 71 80

col_sum 46 41 105 73 NaN
```

Coding exercise

Write your code below. It is recommended that you try solving the exercise yourself before viewing the solution.



The next lesson shows a solution to the above problem.