

Problem 2890: Reshape Data: Melt

Problem Information

Difficulty: [Easy](#)

Acceptance Rate: 0.00%

Paid Only: No

Problem Description

DataFrame

report

```
+-----+-----+ | Column Name | Type | +-----+-----+ | product | object | |
quarter_1 | int | | quarter_2 | int | | quarter_3 | int | | quarter_4 | int | +-----+-----+
```

Write a solution to

reshape

the data so that each row represents sales data for a product in a specific quarter.

The result format is in the following example.

Example 1:

Input:

```
+-----+-----+-----+-----+ | product | quarter_1 | quarter_2 | |
quarter_3 | quarter_4 | +-----+-----+-----+-----+ | Umbrella | 417 |
224 | 379 | 611 | | SleepingBag | 800 | 936 | 93 | 875 |
+-----+-----+-----+-----+
```

Output:

```
+-----+-----+-----+ product | quarter | sales | +-----+-----+-----+  
Umbrella | quarter_1 | 417 || SleepingBag | quarter_1 | 800 || Umbrella | quarter_2 | 224 ||  
SleepingBag | quarter_2 | 936 || Umbrella | quarter_3 | 379 || SleepingBag | quarter_3 | 93 ||  
Umbrella | quarter_4 | 611 || SleepingBag | quarter_4 | 875 | +-----+-----+-----+
```

Explanation:

The DataFrame is reshaped from wide to long format. Each row represents the sales of a product in a quarter.

Code Snippets

Pandas:

```
import pandas as pd  
  
def meltTable(report: pd.DataFrame) -> pd.DataFrame:
```

Solutions

Pandas Solution:

```
import pandas as pd  
  
def meltTable(report: pd.DataFrame) -> pd.DataFrame:
```