

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:

```