

Fill in the blanks 171s

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Return the `food` DataFrame, previewed below, sorted by the index value `item` in descending order.

	energy	protein	carbohydrate
item			
waffles	200	4.29	35.71
tacos	180	10.94	23.44
lasagne	188	11.76	10.59
croissant	343	5.71	58.57
chicken salad	110	5.00	8.00
thai curry	106	3.18	11.66

Complete the code to return the output

```
print(food.sort_index(level = 'item', write code here ))
```

Expected Output

	energy	protein	carbohydrate
item			
waffles	200	4.29	35.71
thai curry	106	3.18	11.66
tacos	180	10.94	23.44
lasagne	188	11.76	10.59
croissant	343	5.71	58.57
chicken salad	110	5.00	8.00

Question: Return the 'food' DataFrame, shown in the image, sorted by the index value 'item' in descending order.

Answer:

```
import pandas as pd
```

```
# Create the DataFrame
```

```
data = {
```

```
    "energy": [200, 180, 188, 343, 110, 106],
```

```
    "protein": [4.29, 10.94, 11.76, 5.71, 5.00, 3.18],
```

```
    "carbohydrate": [35.71, 23.44, 10.59, 58.57, 8.00, 11.66]
```

```
}
```

```
index = ["waffles", "tacos", "lasagne", "croissant", "chicken salad", "thai
```

```
curry"]
food = pd.DataFrame(data, index=index)

# Sort the DataFrame by index in descending order
sorted_food = food.sort_index(level='item', ascending=False)

# Print the sorted DataFrame
print(sorted_food)
```

Explanation:

1. The pandas library is imported for data manipulation.
2. A dictionary 'data' and an index list are used to create the DataFrame 'food'.
3. The 'sort_index' method is applied to sort the DataFrame by the 'item' index in descending order.
4. The parameter 'level' specifies the index level to sort, and 'ascending=False' indicates descending order.
5. The sorted DataFrame is stored in 'sorted_food' and printed.