

[Week11_homework_성혜원]

1. Challenge 1

```
In [1]: ▶ data = [(1,5), (1.5,4), (2,3), (3,1), (3,2), (4,1), (5,1.5), (6,2), (6,4), (7,4), (7,5)]
```

```
In [16]: ▶ a = 0.5  
b = 0  
c = 1  
sums = 0  
  
for(x,y) in data:  
    sums = sums + (y - (a*x*x + b*x + c))*(y - (a*x*x + b*x + c))  
  
print(sums)
```

```
1652.765625
```

2. Challenge 2

challenge 2

```
In [10]: ▶ comparison = pd.DataFrame(y_train)
y_test = lr.predict(x_train)
comparison
```

```
Out[10]:
```

	적합사이즈
0	275
1	285
2	290
3	265
4	260
5	275
6	280
7	270
8	260
9	275

```
In [11]: ▶ y_test
```

```
Out[11]: array([281.8296389 , 277.8828813 , 289.4745801 , 263.17652819,
268.55981641, 270.05240973, 273.91711351, 265.90455468,
267.47623672, 276.72624047])
```

```
In [12]: ▶ comparison['나의 예측'] = y_test
```

```
In [13]: ▶ comparison
```

```
Out[13]:
```

	적합사이즈	나의 예측
0	275	281.829639
1	285	277.882881
2	290	289.474580
3	265	263.176528
4	260	268.559816
5	275	270.052410
6	280	273.917114
7	270	265.904555
8	260	267.476237
9	275	276.726240