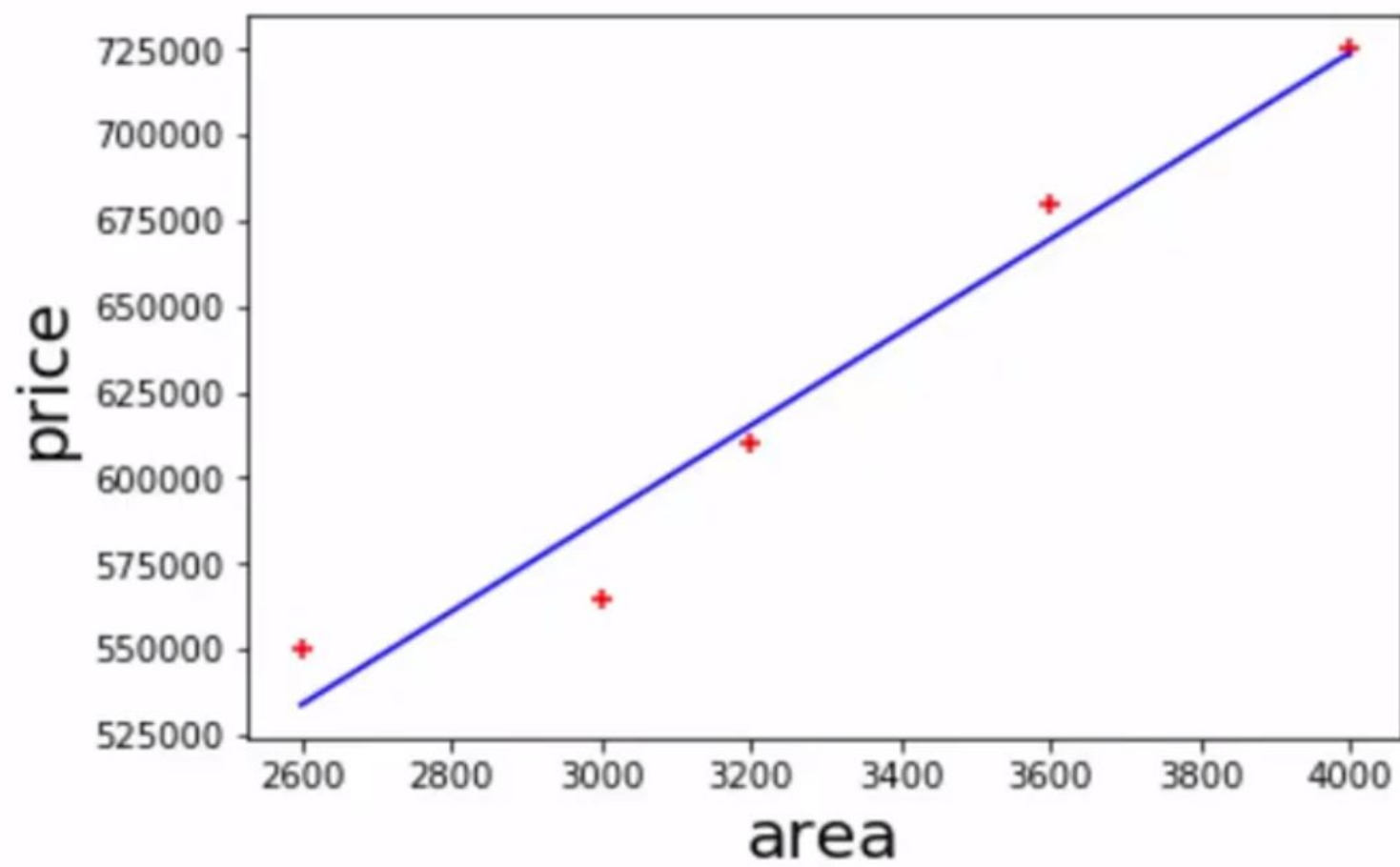


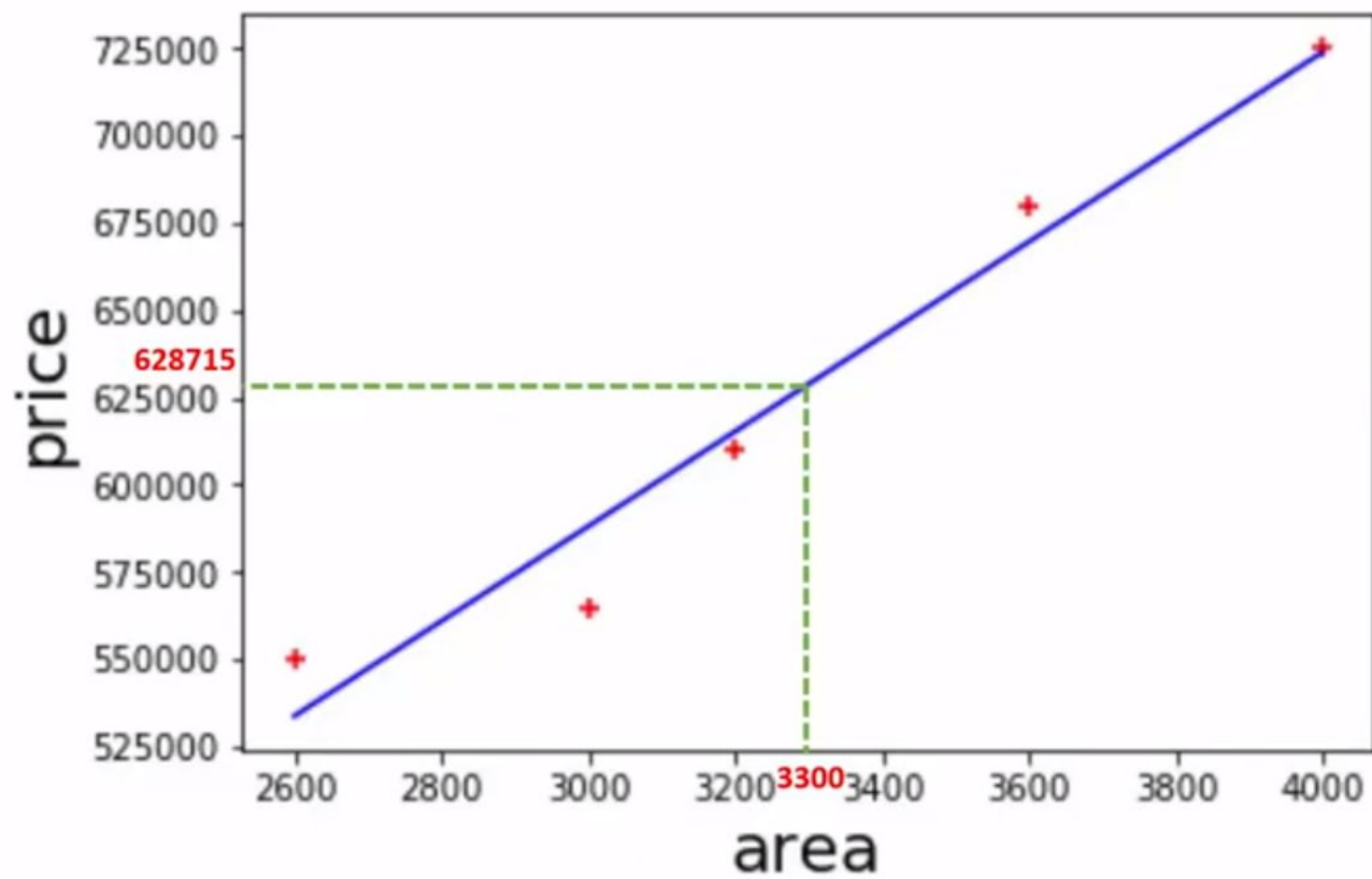
area	price
2600	550000
3000	565000
3200	610000
3600	680000
4000	725000

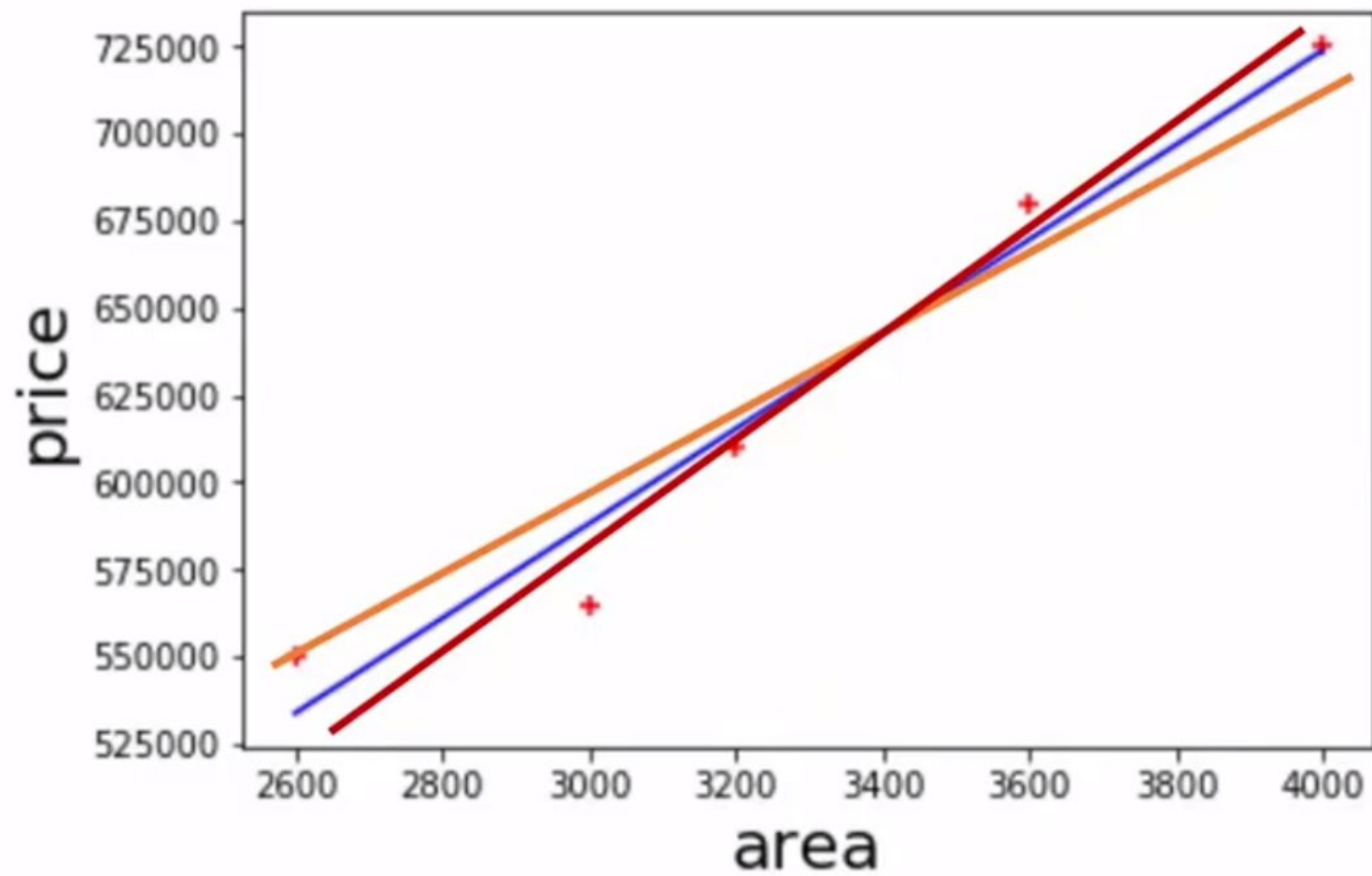
area	price
2600	550000
3000	565000
3200	610000
3600	680000
4000	725000

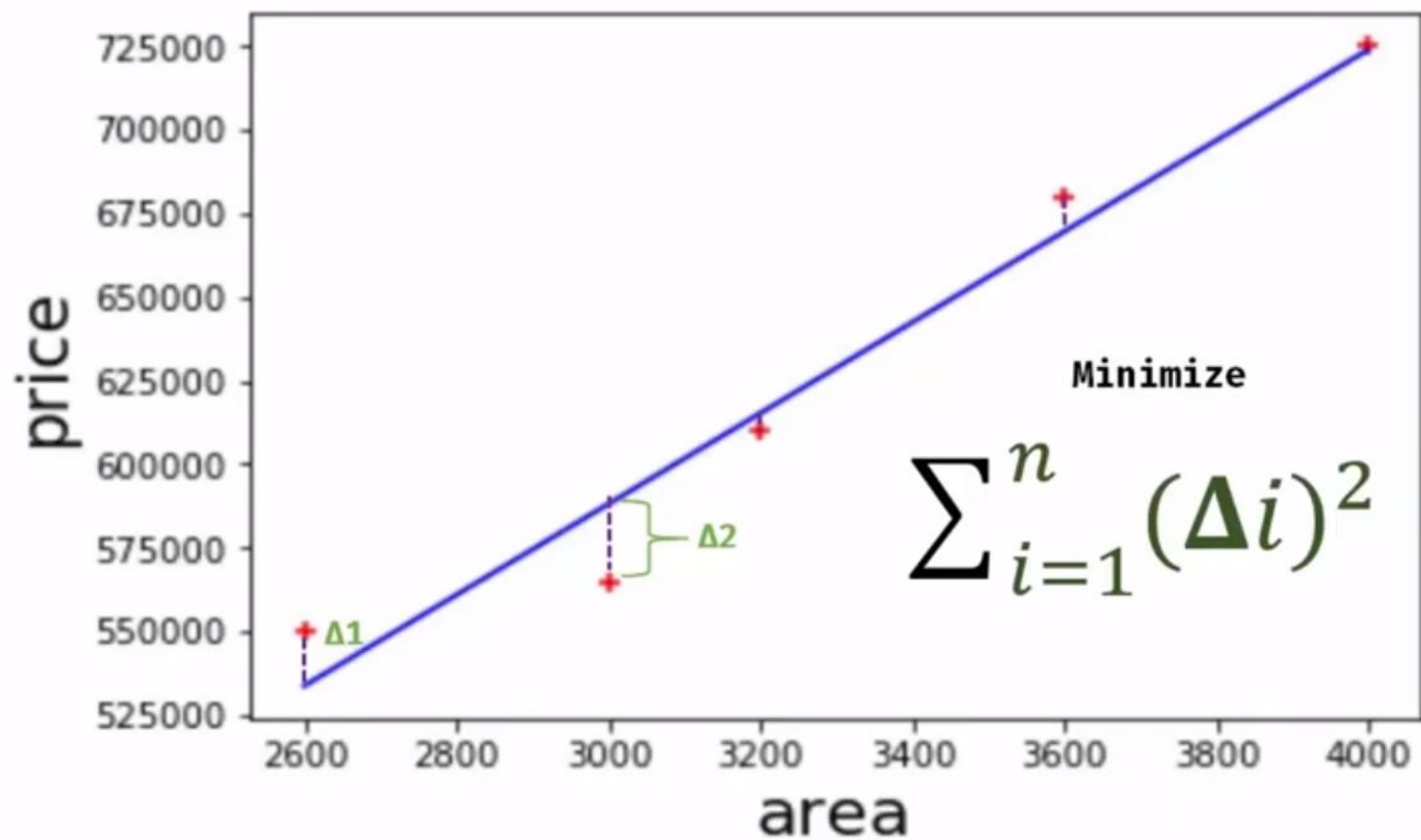
Given these home prices find out prices of homes whose area is,

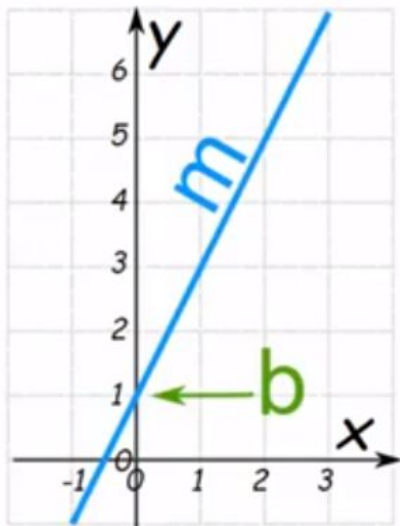
3300 square feet
5000 square feet












$$\text{price} = m * \text{area} + b$$

$$y = mX + b$$


Slope (or Gradient) Y Intercept

$$\text{price} = m * \text{area} + b$$

Dependent
variable



Independent
variable



homeprices.csv - Excel

File Home Insert Page Layout Formulas Data Review View Help Power Pivot Tell me what you want to do Share

Clipboard Font Alignment Number Styles Cells Editing

Calibri 11 A A

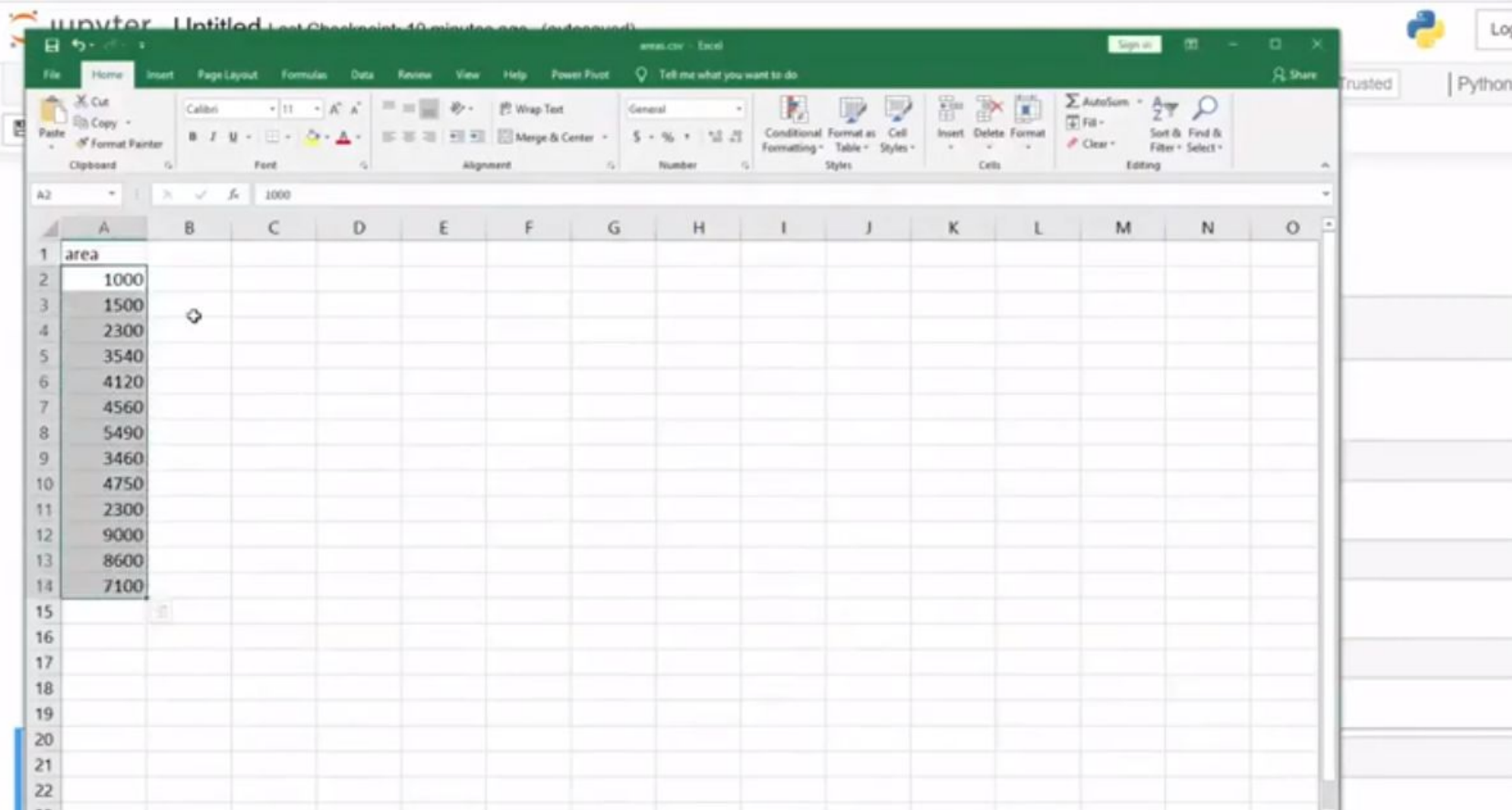
General Conditional Formatting Cell Styles Insert Delete Format AutoSum Fill Sort & Find & Filter Select Clear

Trusted

	A	B	C	D	E	F	G	H	I	J
1	area	price								
2	2600	550000								
3	3000	565000								
4	3200	610000								
5	3600	680000								
6	4000	725000								
7										
8										
9										
10										
11										
12										

homeprices

Display Settings 200%



```
In [11]: model.intercept_
```

```
Out[11]: 180616.43835616432
```

```
In [12]: 135.78767123*5000+180616.43835616432
```

```
Out[12]: 859554.7945061643
```

```
In [13]: area_df = pd.read_csv("areas.csv")  
area_df
```

```
Out[13]:
```

	area
0	1000
1	1500
2	2300
3	3540
4	4120
5	4560
6	5490
7	3460
8	4750
9	2300
10	9000

		area	prices
2	0	1000	316404.1
3	1	1500	384297.9
4	2	2300	492928.1
5	3	3540	661304.8
6	4	4120	740061.6
7	5	4560	799808.2
8	6	5490	926090.8
9	7	3460	650441.8
10	8	4750	825607.9
11	9	2300	492928.1
12	10	9000	1402705
13	11	8600	1348390
14	12	7100	1144709