

```
In [1]: import pandas as pd
import numpy as np
```

```
In [11]: df=pd.read_csv("Book1.csv", names=["name","income"], skiprows=1)
df
```

Out[11]:

	name	income
0	Rob	5000
1	Rafiq	6000
2	Nina	4000
3	Sofia	7500
4	Mohan	8000
5	Tao	7000
6	Elon Musk	10000000

```
In [12]: df.income.quantile(0)
```

Out[12]: 4000.0

```
In [13]: df.income.quantile(0.25,interpolation = "higher")
```

Out[13]: 6000

```
In [14]: df.income.quantile(0.5,interpolation = "lower")
```

Out[14]: 7000

```
In [15]: df.income.quantile(1)
```

Out[15]: 10000000.0

```
In [16]: percentile_99 = df.income.quantile(0.99)
percentile_99
```

Out[16]: 9400479.999999994

```
In [17]: df[df.income>percentile_99]
```

Out[17]:

	name	income
6	Elon Musk	10000000

```
In [18]: df[df.income<=percentile_99]
```

Out[18]:

	name	income
0	Rob	5000
1	Rafiq	6000
2	Nina	4000
3	Sofia	7500
4	Mohan	8000
5	Tao	7000

```
In [20]: df
```

Out[20]:

	name	income
0	Rob	5000
1	Rafiq	6000
2	Nina	4000
3	Sofia	7500
4	Mohan	8000
5	Tao	7000
6	Elon Musk	10000000

```
In [22]: dfl=df[df.income<=percentile_99]
dfl
```

Out[22]:

	name	income
0	Rob	5000
1	Rafiq	6000
2	Nina	4000
3	Sofia	7500
4	Mohan	8000
5	Tao	7000

```
In [26]: df['income'][3] = np.nan
print(df)
```

	name	income
0	Rob	5000.0
1	Rafiq	6000.0
2	Nina	4000.0
3	Sofia	NaN
4	Mohan	8000.0
5	Tao	7000.0
6	Elon Musk	10000000.0

```
In [27]: df
```

Out[27]:

	name	income
0	Rob	5000.0
1	Rafiq	6000.0
2	Nina	4000.0
3	Sofia	NaN
4	Mohan	8000.0
5	Tao	7000.0
6	Elon Musk	10000000.0

```
In [28]: df.income.mean()
```

Out[28]: 1671666.6666666667

```
In [30]: df_new = df.fillna(df.income.mean())
df_new
```

Out[30]:

	name	income
0	Rob	5.000000e+03
1	Rafiq	6.000000e+03
2	Nina	4.000000e+03
3	Sofia	1.671667e+06
4	Mohan	8.000000e+03
5	Tao	7.000000e+03
6	Elon Musk	1.000000e+07

```
In [31]: df_new = df.fillna(df.income.median())
df_new
```

Out[31]:

	name	income
0	Rob	5000.0
1	Rafiq	6000.0
2	Nina	4000.0
3	Sofia	6500.0
4	Mohan	8000.0
5	Tao	7000.0

In [ ]: