In [2]:
```python
# Summary statistics by Pclass
summary_stats = df.groupby('Pclass')[['Age', 'Fare']].agg(['mean', 'median',
print(summary_stats)
```

```
             Age                                           Fare                  \
            mean median    min    max        std          mean    median    min
Pclass
1       38.233441   37.0   0.92   80.0  14.802856    84.154687   60.2875    0.0
2       29.877630   29.0   0.67   70.0  14.001077    20.662183   14.2500    0.0
3       25.140620   24.0   0.42   74.0  12.495398    13.675550    8.0500    0.0


              max         std
Pclass
1        512.3292   78.380373
2         73.5000   13.417399
3         69.5500   11.778142
```

In [8]:

```
             Age                                           Fare                  \
            mean median    min    max        std          mean    median    min
Pclass
1       38.233441   37.0   0.92   80.0  14.802856    84.154687   60.2875    0.0
2       29.877630   29.0   0.67   70.0  14.001077    20.662183   14.2500    0.0
3       25.140620   24.0   0.42   74.0  12.495398    13.675550    8.0500    0.0


              max         std
Pclass
1        512.3292   78.380373
2         73.5000   13.417399
3         69.5500   11.778142
```

In [10]:
```python
import numpy as np

for status in df['Survived'].unique():
    ages = df[df['Survived'] == status]['Age'].dropna()
    print(f"Survived = {status}")
    print("Mean:", round(ages.mean(), 2))
    print("Std Dev:", round(ages.std(), 2))
    print("25th percentile:", np.percentile(ages, 25))
    print("Median (50th):", np.percentile(ages, 50))
    print("75th percentile:", np.percentile(ages, 75))
    print("-----------")
```

```
Survived = 0
Mean: 30.63
Std Dev: 14.17
25th percentile: 21.0
Median (50th): 28.0
75th percentile: 39.0
-----------
Survived = 1
Mean: 28.34
Std Dev: 14.95
25th percentile: 19.0
Median (50th): 28.0
75th percentile: 36.0
-----------
```

In [ ]: