In [23]:
```python
import pandas as pd
import numpy as np

# Creating a dummy DataFrame of 12 random heights ranging from 150-180 cm
df = pd.DataFrame({'Height': [150.4, 157.6, 170, 176, 164.2, 155, 159.2, 175,

# Printing DataFrame Before sorting Continuous to Categories
print("Before: \n")
print(df)

# Categorizing Height into 3 Categories
df['Label'] = pd.cut(
    x=df['Height'],
    bins=[150, 157, 169, 180],
    labels=['Short', 'Average', 'Tall']
)

# Printing DataFrame after sorting Continuous to Categories
print("After: \n")
print(df)

# Check the number of values in each bin
print("Categories: \n")
print(df['Label'].value_counts())
```

```
Before:

    Height
0    150.4
1    157.6
2    170.0
3    176.0
4    164.2
5    155.0
6    159.2
7    175.0
8    162.4
9    176.0
10   153.0
11   170.9
After:

    Height     Label
0    150.4     Short
1    157.6   Average
2    170.0      Tall
3    176.0      Tall
4    164.2   Average
5    155.0     Short
6    159.2   Average
7    175.0      Tall
8    162.4   Average
9    176.0      Tall
10   153.0     Short
11   170.9      Tall
Categories:

Tall       5
Average    4
Short      3
Name: Label, dtype: int64
```

In [ ]: