```
In [9]: import pandas as pd
           import statistics as stat
           df = pd.read_csv('Iris.csv')
In [10]:
In [13]:
          df.head(5)
Out[13]:
                   SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                                                                                  Species
            0
                1
                              5.1
                                                              1.4
                                              3.5
                                                                            0.2
                                                                                Iris-setosa
                2
                              4.9
            1
                                              3.0
                                                              1.4
                                                                            0.2
                                                                                Iris-setosa
            2
                3
                              4.7
                                              3.2
                                                              1.3
                                                                            0.2 Iris-setosa
            3
                4
                              4.6
                                              3.1
                                                              1.5
                                                                            0.2
                                                                                 Iris-setosa
               5
                              5.0
                                              3.6
                                                              1.4
                                                                            0.2 Iris-setosa
In [15]:
           df.describe()
Out[15]:
                           ld
                               SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                   150.000000
            count
                                    150.000000
                                                   150.000000
                                                                   150.000000
                                                                                 150.000000
                    75.500000
            mean
                                      5.843333
                                                     3.054000
                                                                     3.758667
                                                                                    1.198667
               std
                    43.445368
                                      0.828066
                                                     0.433594
                                                                     1.764420
                                                                                    0.763161
                     1.000000
                                                                                    0.100000
              min
                                      4.300000
                                                     2.000000
                                                                     1.000000
              25%
                    38.250000
                                      5.100000
                                                     2.800000
                                                                     1.600000
                                                                                    0.300000
              50%
                    75.500000
                                      5.800000
                                                     3.000000
                                                                     4.350000
                                                                                    1.300000
              75%
                   112.750000
                                      6.400000
                                                     3.300000
                                                                     5.100000
                                                                                    1.800000
                  150.000000
                                      7.900000
                                                     4.400000
                                                                     6.900000
                                                                                    2.500000
              max
           df.groupby("Species")[["SepalLengthCm", "SepalWidthCm", "PetalLengthCm",
Out[16]:
                           SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                 Species
                                                                                  0.244
               Iris-setosa
                                    5.006
                                                    3.418
                                                                   1.464
            Iris-versicolor
                                    5.936
                                                    2.770
                                                                   4.260
                                                                                  1.326
             Iris-virginica
                                                    2.974
                                                                                  2.026
                                    6.588
                                                                   5.552
In [18]:
           df.groupby("Species")[["SepalLengthCm", "SepalWidthCm", "PetalLengthCm",
Out[18]:
                           SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
                  Species
                                      5.0
                                                      3.4
                                                                    1.50
                                                                                    0.2
               Iris-setosa
            Iris-versicolor
                                      5.9
                                                      2.8
                                                                    4.35
                                                                                    1.3
             Iris-virginica
                                      6.5
                                                      3.0
                                                                    5.55
                                                                                    2.0
```

In [19]:	df.groupby("	Species")[["So	epalLengthCm"	, "SepalWidth	Cm", "PetalLo	engthCm",	"P
Out[19]:		SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm		
	Species						
	Iris-setosa	5.8	4.4	1.9	0.6		
	Iris-versicolor	7.0	3.4	5.1	1.8		
	Iris-virginica	7.9	3.8	6.9	2.5		
In [20]:	df.groupby("	Species")[["Se	epalLengthCm"	, "SepalWidth	Cm", "PetalLo	engthCm",	"P
Out[20]:		SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm		
	Species						
	Iris-setosa	4.3	2.3	1.0	0.1		
	Iris-versicolor	4.9	2.0	3.0	1.0		
	Iris-virginica	4.9	2.2	4.5	1.4		
In [21]:	df.groupby("	Species")[["Se	epalLengthCm"	, "SepalWidth	Cm", "PetalLo	engthCm",	"P
Out[21]:		SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm		
	Species						
	Iris-setosa	5.0	3.4	1.50	0.2		
	Iris-versicolor	5.9	2.8	4.35	1.3		
	Iris-virginica	6.5	3.0	5.55	2.0		
In [22]:	df.SepalLeng	thCm.std()					
Out[22]:	0.8280661279	778629					
In [23]:	df.SepalWidt	hCm.std()					
Out[23]:	0.4335943113	621737					
In [ ]:							