In [1]: import pandas as pd
data=pd.read_csv("/home/placement/Downloads/arunachal.csv")

In [2]: data.describe()

Out[2]:

	Unnamed: 0	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEF
count	91.00000	91.000000	90.000000	90.000000	89.000000	91.000000	91.000000	90.000000	90.000000	91.000000	91.000000
mean	155.00000	1962.747253	48.598889	93.966667	154.446067	262.990110	364.651648	659.556667	711.963333	502.163736	433.273626
std	26.41338	27.695003	34.687078	46.258375	87.918484	113.395773	181.095447	311.642230	356.372598	275.716730	204.991358
min	110.00000	1916.000000	1.800000	6.100000	28.500000	94.700000	101.800000	239.400000	233.000000	172.400000	152.500000
25%	132.50000	1938.500000	20.075000	65.625000	101.700000	180.600000	237.150000	425.675000	442.150000	301.100000	282.150000
50%	155.00000	1964.000000	45.400000	87.600000	141.700000	245.400000	314.600000	545.750000	613.000000	411.600000	384.300000
75%	177.50000	1986.500000	65.150000	120.400000	189.600000	335.300000	447.050000	840.400000	922.075000	669.200000	521.150000
max	200.00000	2009.000000	164.500000	208.500000	605.600000	595.100000	1168.600000	1609.900000	2362.800000	1664.600000	1222.000000

In [3]: data.head()

Out[3]:

	Unnamed: 0	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	
0	110	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN	117.9	811.8	
1	111	ARUNACHAL PRADESH	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN	185.9	NaN	2.
2	112	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	4:
3	113	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	21
4	114	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	21

In [4]: data.info()

```
YEAK
                 91 non-null
                                  int64
3
    JAN
                 90 non-null
                                  float64
                 90 non-null
    FEB
                                  float64
                 89 non-null
                                  float64
5
   MAR
6
    APR
                 91 non-null
                                  float64
7
   MAY
                 91 non-null
                                  float64
                 90 non-null
                                  float64
8
    JUN
                 90 non-null
                                  float64
    JUL
                 91 non-null
10
   AUG
                                  float64
11
   SEP
                 91 non-null
                                  float64
12
   0CT
                 89 non-null
                                  float64
13
   NOV
                 89 non-null
                                  float64
                 89 non-null
                                  float64
14
   DEC
15
   ANNUAL
                 85 non-null
                                  float64
16
   Jan-Feb
                 90 non-null
                                  float64
17
                 89 non-null
                                  float64
   Mar-May
   Jun-Sep
                 89 non-null
                                  float64
18
19
   Oct-Dec
                 88 non-null
                                  float64
```

dtypes: float64(17), int64(2), object(1)
memory usage: 14.3+ KB

localhost:8888/notebooks/arunachal.ipynb

```
In [5]: data.shape
Out[5]: (91, 20)
In [6]: list(data)
Out[6]: ['Unnamed: 0',
          'SUBDIVISION',
          'YEAR',
          'JAN',
          'FEB',
          'MAR',
          'APR',
          'MAY',
          'JUN',
          'JUL',
          'AUG',
          'SEP',
          'OCT',
          'NOV',
          'DEC',
          'ANNUAL',
          'Jan-Feb',
          'Mar-May',
          'Jun-Sep',
          'Oct-Dec']
In [7]: datal=data.drop(['Unnamed: 0'],axis=1)
```

In [8]: data1

Out[8]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oc De
0	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN	117.9	811.8	NaN	Na
1	ARUNACHAL PRADESH	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN	185.9	NaN	2772.8	262.
2	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	4121.3	146.
3	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	2888.0	997.
4	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	2649.2	103.

86	ARUNACHAL PRADESH	2005	48.4	167.6	229.5	195.3	179.8	269.3	430.8	400.0	243.6	139.3	28.6	3.3	2335.5	216.0	604.6	1343.7	171.
87	ARUNACHAL PRADESH	2006	6.0	103.7	63.3	202.7	321.7	520.4	382.2	227.6	263.2	77.2	69.7	21.7	2259.6	109.7	587.7	1393.5	168.
88	ARUNACHAL PRADESH	2007	13.4	97.4	48.1	292.4	250.4	530.2	761.0	364.6	529.3	102.6	24.3	6.9	3020.7	110.8	590.9	2185.1	133.
89	ARUNACHAL PRADESH	2008	76.7	39.7	122.6	192.4	185.0	423.6	456.1	439.3	189.7	115.1	1.7	2.6	2244.4	116.4	499.9	1508.7	119.
90	ARUNACHAL PRADESH	2009	18.0	92.8	72.1	132.7	189.9	259.1	329.9	370.3	152.5	82.9	33.9	15.9	1749.9	110.8	394.7	1111.8	132.

91 rows × 19 columns

localhost:8888/notebooks/arunachal.ipynb

```
In [9]: data1.isna().sum()
Out[9]: SUBDIVISION
                        0
         YEAR
                        0
         JAN
         FEB
         MAR
                        2
         APR
         MAY
         JUN
         JUL
         AUG
         SEP
         0CT
         NOV
         DEC
         ANNUAL
         Jan-Feb
                        2
         Mar-May
         Jun-Sep
         Oct-Dec
         dtype: int64
In [10]: data1=data1.fillna(data.mode())
```

In	[11]:	datal.isna().	sum()
0u1	t[11]:	SUBDIVISION	0
		YEAR	0
		JAN	1
		FEB	1
		MAR	0
		APR	0
		MAY	0
		JUN	0
		JUL	0
		AUG	0
		SEP	0
		0CT	1
		NOV	1
		DEC	1
		ANNUAL	0
		Jan-Feb	1
		Mar-May	0
		Jun-Sep	0
		Oct-Dec	2
		dtype: int64	

In [12]: data1.head(10)

Out[12]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oc1 De
0	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	593.0	629.7	333.9	58.5	7.8	0.0	1668.5	117.9	811.8	1111.8	130.
1	ARUNACHAL PRADESH	1917	21.4	164.5	32.9	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	1749.9	185.9	379.7	2772.8	262.
2	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	4121.3	146.
3	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	2888.0	997.
4	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	2649.2	103.
5	ARUNACHAL PRADESH	1921	78.9	54.3	180.3	358.0	598.0	1233.2	1433.0	885.9	603.4	246.3	4.6	15.5	5691.4	133.2	1136.3	4155.5	266.
6	ARUNACHAL PRADESH	1922	50.7	59.4	170.4	299.5	350.5	1109.3	918.7	488.3	207.6	483.5	30.3	19.0	4187.2	110.1	820.4	2723.9	532.
7	ARUNACHAL PRADESH	1923	9.4	160.8	34.0	240.9	445.4	408.6	1278.5	251.3	617.3	50.1	8.4	2.8	3507.5	170.2	720.3	2555.7	61.
8	ARUNACHAL PRADESH	1924	85.7	45.1	74.1	162.4	515.7	1165.0	942.7	713.8	410.8	303.3	31.9	0.0	4450.5	130.8	752.2	3232.3	335.
9	ARUNACHAL PRADESH	1925	80.6	114.0	143.3	223.0	587.2	611.6	611.0	684.7	1222.0	153.2	5.1	4.1	4439.8	194.6	953.5	3129.3	162.

In [13]: | data1=data1.fillna(data.mode())

In [14]: data1.head(10)

Out[14]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oc1 De
0	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	593.0	629.7	333.9	58.5	7.8	0.0	1668.5	117.9	811.8	1111.8	130.
1	ARUNACHAL PRADESH	1917	21.4	164.5	32.9	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	1749.9	185.9	379.7	2772.8	262.
2	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	5486.3	21.4	1196.9	4121.3	146.
3	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4693.9	102.3	706.0	2888.0	997.
4	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	4106.7	210.3	1143.9	2649.2	103.
5	ARUNACHAL PRADESH	1921	78.9	54.3	180.3	358.0	598.0	1233.2	1433.0	885.9	603.4	246.3	4.6	15.5	5691.4	133.2	1136.3	4155.5	266.
6	ARUNACHAL PRADESH	1922	50.7	59.4	170.4	299.5	350.5	1109.3	918.7	488.3	207.6	483.5	30.3	19.0	4187.2	110.1	820.4	2723.9	532.
7	ARUNACHAL PRADESH	1923	9.4	160.8	34.0	240.9	445.4	408.6	1278.5	251.3	617.3	50.1	8.4	2.8	3507.5	170.2	720.3	2555.7	61.
8	ARUNACHAL PRADESH	1924	85.7	45.1	74.1	162.4	515.7	1165.0	942.7	713.8	410.8	303.3	31.9	0.0	4450.5	130.8	752.2	3232.3	335.
9	ARUNACHAL PRADESH	1925	80.6	114.0	143.3	223.0	587.2	611.6	611.0	684.7	1222.0	153.2	5.1	4.1	4439.8	194.6	953.5	3129.3	162.

In []: