In [9]:
```
import pandas as pd
import numpy as np
df=pd.read_csv("C:\\Users\\System21\\Documents\\StudentPerformance.csv")
df
```

Out[9]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.0	77.0	80	64	92	2020	
1	79.0	85.0	68	71	96	2018	
2	66.0	82.0	61	77	99	2021	
3	94.0	82.0	77	72	96	2019	
4	70.0	83.0	76	73	92	2021	
5	NaN	85.0	72	62	81	2021	
6	75.0	82.0	90	62	94	2020	
7	63.0	79.0	74	71	75	2021	
8	79.0	84.0	86	75	91	2018	
9	68.0	85.0	84	78	92	2019	
10	67.0	NaN	77	64	83	2020	
11	67.0	83.0	78	73	91	2020	
12	69.0	84.0	68	85	78	2020	
13	75.0	80.0	80	70	78	2019	
14	69.0	82.0	86	73	89	2020	
15	74.0	81.0	68	76	90	2018	
16	62.0	85.0	62	73	96	2021	
17	72.0	76.0	82	77	76	2019	
18	66.0	76.0	87	79	84	2019	
19	NaN	82.0	62	79	78	2020	
20	69.0	79.0	90	77	84	2020	
21	71.0	85.0	90	71	86	2020	
22	75.0	84.0	73	69	99	2020	
23	65.0	85.0	79	92	93	2021	
24	71.0	78.0	83	77	92	2019	
25	64.0	78.0	95	63	83	2021	
26	67.0	85.0	90	62	76	2021	
27	61.0	85.0	89	76	84	2021	
28	69.0	84.0	79	79	83	2019	

In [10]:
```
df.isnull()
```

Out[10]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	False	False	False	False	False	False	
1	False	False	False	False	False	False	
2	False	False	False	False	False	False	
3	False	False	False	False	False	False	
4	False	False	False	False	False	False	
5	True	False	False	False	False	False	
6	False	False	False	False	False	False	
7	False	False	False	False	False	False	
8	False	False	False	False	False	False	
9	False	False	False	False	False	False	
10	False	True	False	False	False	False	
11	False	False	False	False	False	False	
12	False	False	False	False	False	False	
13	False	False	False	False	False	False	
14	False	False	False	False	False	False	
15	False	False	False	False	False	False	
16	False	False	False	False	False	False	
17	False	False	False	False	False	False	
18	False	False	False	False	False	False	
19	True	False	False	False	False	False	
20	False	False	False	False	False	False	
21	False	False	False	False	False	False	
22	False	False	False	False	False	False	
23	False	False	False	False	False	False	
24	False	False	False	False	False	False	
25	False	False	False	False	False	False	
26	False	False	False	False	False	False	
27	False	False	False	False	False	False	
28	False	False	False	False	False	False	

In [11]:
```
series = pd.isnull(df["mathscore"])
df[series]
```

Out[11]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
5	NaN	85.0	72	62	81	2021	
19	NaN	82.0	62	79	78	2020	

In [12]:
```
df.notnull()
```

Out[12]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	True	True	True	True	True	True	
1	True	True	True	True	True	True	
2	True	True	True	True	True	True	
3	True	True	True	True	True	True	
4	True	True	True	True	True	True	
5	False	True	True	True	True	True	
6	True	True	True	True	True	True	
7	True	True	True	True	True	True	
8	True	True	True	True	True	True	
9	True	True	True	True	True	True	
10	True	False	True	True	True	True	
11	True	True	True	True	True	True	
12	True	True	True	True	True	True	
13	True	True	True	True	True	True	
14	True	True	True	True	True	True	
15	True	True	True	True	True	True	
16	True	True	True	True	True	True	
17	True	True	True	True	True	True	
18	True	True	True	True	True	True	
19	False	True	True	True	True	True	
20	True	True	True	True	True	True	
21	True	True	True	True	True	True	
22	True	True	True	True	True	True	
23	True	True	True	True	True	True	
24	True	True	True	True	True	True	
25	True	True	True	True	True	True	
26	True	True	True	True	True	True	
27	True	True	True	True	True	True	
28	True	True	True	True	True	True	

In [15]:
```
series1 = pd.notnull(df["mathscore"])
df[series1]
```

Out[15]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.0	77.0	80	64	92	2020	
1	79.0	85.0	68	71	96	2018	
2	66.0	82.0	61	77	99	2021	
3	94.0	82.0	77	72	96	2019	
4	70.0	83.0	76	73	92	2021	
6	75.0	82.0	90	62	94	2020	
7	63.0	79.0	74	71	75	2021	
8	79.0	84.0	86	75	91	2018	
9	68.0	85.0	84	78	92	2019	
10	67.0	NaN	77	64	83	2020	
11	67.0	83.0	78	73	91	2020	
12	69.0	84.0	68	85	78	2020	
13	75.0	80.0	80	70	78	2019	
14	69.0	82.0	86	73	89	2020	
15	74.0	81.0	68	76	90	2018	
16	62.0	85.0	62	73	96	2021	
17	72.0	76.0	82	77	76	2019	
18	66.0	76.0	87	79	84	2019	
20	69.0	79.0	90	77	84	2020	
21	71.0	85.0	90	71	86	2020	
22	75.0	84.0	73	69	99	2020	
23	65.0	85.0	79	92	93	2021	
24	71.0	78.0	83	77	92	2019	
25	64.0	78.0	95	63	83	2021	
26	67.0	85.0	90	62	76	2021	
27	61.0	85.0	89	76	84	2021	
28	69.0	84.0	79	79	83	2019	

In [16]:
```
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
df['gender'] = le.fit_transform(df['gender'])
newdf = df
df
```

Out[16]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.0	77.0	80	64	92	2020	
1	79.0	85.0	68	71	96	2018	
2	66.0	82.0	61	77	99	2021	
3	94.0	82.0	77	72	96	2019	
4	70.0	83.0	76	73	92	2021	
5	NaN	85.0	72	62	81	2021	
6	75.0	82.0	90	62	94	2020	
7	63.0	79.0	74	71	75	2021	
8	79.0	84.0	86	75	91	2018	
9	68.0	85.0	84	78	92	2019	
10	67.0	NaN	77	64	83	2020	
11	67.0	83.0	78	73	91	2020	
12	69.0	84.0	68	85	78	2020	
13	75.0	80.0	80	70	78	2019	
14	69.0	82.0	86	73	89	2020	
15	74.0	81.0	68	76	90	2018	
16	62.0	85.0	62	73	96	2021	
17	72.0	76.0	82	77	76	2019	
18	66.0	76.0	87	79	84	2019	
19	NaN	82.0	62	79	78	2020	
20	69.0	79.0	90	77	84	2020	
21	71.0	85.0	90	71	86	2020	
22	75.0	84.0	73	69	99	2020	
23	65.0	85.0	79	92	93	2021	
24	71.0	78.0	83	77	92	2019	
25	64.0	78.0	95	63	83	2021	
26	67.0	85.0	90	62	76	2021	
27	61.0	85.0	89	76	84	2021	
28	69.0	84.0	79	79	83	2019	

In [17]:
```
ndf = df
ndf.fillna(0)
```

Out[17]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.0	77.0	80	64	92	2020	
1	79.0	85.0	68	71	96	2018	
2	66.0	82.0	61	77	99	2021	
3	94.0	82.0	77	72	96	2019	
4	70.0	83.0	76	73	92	2021	
5	0.0	85.0	72	62	81	2021	
6	75.0	82.0	90	62	94	2020	
7	63.0	79.0	74	71	75	2021	
8	79.0	84.0	86	75	91	2018	
9	68.0	85.0	84	78	92	2019	
10	67.0	0.0	77	64	83	2020	
11	67.0	83.0	78	73	91	2020	
12	69.0	84.0	68	85	78	2020	
13	75.0	80.0	80	70	78	2019	
14	69.0	82.0	86	73	89	2020	
15	74.0	81.0	68	76	90	2018	
16	62.0	85.0	62	73	96	2021	
17	72.0	76.0	82	77	76	2019	
18	66.0	76.0	87	79	84	2019	
19	0.0	82.0	62	79	78	2020	
20	69.0	79.0	90	77	84	2020	
21	71.0	85.0	90	71	86	2020	
22	75.0	84.0	73	69	99	2020	
23	65.0	85.0	79	92	93	2021	
24	71.0	78.0	83	77	92	2019	
25	64.0	78.0	95	63	83	2021	
26	67.0	85.0	90	62	76	2021	
27	61.0	85.0	89	76	84	2021	
28	69.0	84.0	79	79	83	2019	

In [23]:
```
df['mathscore']=df['mathscore'].fillna(df['mathscore'].mean())
df
```

Out[23]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [24]:
```
df['mathscore']=df['mathscore'].fillna(df['mathscore'].median())
df
```

Out[24]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [25]:
```
df['mathscore']=df['mathscore'].fillna(df['mathscore'].std())
df
```

Out[25]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [26]:
```
df['mathscore']=df['mathscore'].fillna(df['mathscore'].min())
df
```

Out[26]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [27]:
```
df['mathscore']=df['mathscore'].fillna(df['mathscore'].max())
df
```

Out[27]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [28]:
```
m_v=df['mathscore'].mean()
df['mathscore'].fillna(value=m_v,inplace=True)
df
```

Out[28]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [29]:
```
ndf.replace(to_replace=np.nan,value=-99)
```

Out[29]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	-99.0	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [30]:
```
ndf.dropna()
```

Out[30]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [31]:
```
ndf.dropna(how='all')
```

Out[31]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
10	67.000000	NaN	77	64	83	2020	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

In [32]:
```
ndf.dropna(axis=1)
```

Out[32]:

	mathscore	writingScore	Placementscore	ClubJoinScore	Placementyear	placementcount
0	69.000000	80	64	92	2020	3
1	79.000000	68	71	96	2018	3
2	66.000000	61	77	99	2021	3
3	94.000000	77	72	96	2019	3
4	70.000000	76	73	92	2021	3
5	70.222222	72	62	81	2021	2
6	75.000000	90	62	94	2020	3
7	63.000000	74	71	75	2021	2
8	79.000000	86	75	91	2018	3
9	68.000000	84	78	92	2019	3
10	67.000000	77	64	83	2020	2
11	67.000000	78	73	91	2020	3
12	69.000000	68	85	78	2020	2
13	75.000000	80	70	78	2019	2
14	69.000000	86	73	89	2020	3
15	74.000000	68	76	90	2018	3
16	62.000000	62	73	96	2021	3
17	72.000000	82	77	76	2019	2
18	66.000000	87	79	84	2019	2
19	70.222222	62	79	78	2020	2
20	69.000000	90	77	84	2020	2
21	71.000000	90	71	86	2020	3
22	75.000000	73	69	99	2020	3
23	65.000000	79	92	93	2021	3
24	71.000000	83	77	92	2019	3
25	64.000000	95	63	83	2021	2
26	67.000000	90	62	76	2021	2
27	61.000000	89	76	84	2021	2
28	69.000000	79	79	83	2019	2

In [33]:
```
new_data=ndf.dropna(axis=0,how='any')
new_data
```

Out[33]:

	mathscore	readingscore	writingScore	Placementscore	ClubJoinScore	Placementyear	p
0	69.000000	77.0	80	64	92	2020	
1	79.000000	85.0	68	71	96	2018	
2	66.000000	82.0	61	77	99	2021	
3	94.000000	82.0	77	72	96	2019	
4	70.000000	83.0	76	73	92	2021	
5	70.222222	85.0	72	62	81	2021	
6	75.000000	82.0	90	62	94	2020	
7	63.000000	79.0	74	71	75	2021	
8	79.000000	84.0	86	75	91	2018	
9	68.000000	85.0	84	78	92	2019	
11	67.000000	83.0	78	73	91	2020	
12	69.000000	84.0	68	85	78	2020	
13	75.000000	80.0	80	70	78	2019	
14	69.000000	82.0	86	73	89	2020	
15	74.000000	81.0	68	76	90	2018	
16	62.000000	85.0	62	73	96	2021	
17	72.000000	76.0	82	77	76	2019	
18	66.000000	76.0	87	79	84	2019	
19	70.222222	82.0	62	79	78	2020	
20	69.000000	79.0	90	77	84	2020	
21	71.000000	85.0	90	71	86	2020	
22	75.000000	84.0	73	69	99	2020	
23	65.000000	85.0	79	92	93	2021	
24	71.000000	78.0	83	77	92	2019	
25	64.000000	78.0	95	63	83	2021	
26	67.000000	85.0	90	62	76	2021	
27	61.000000	85.0	89	76	84	2021	
28	69.000000	84.0	79	79	83	2019	

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