```
In [1]: import numpy as np
        import pandas as pd
```

```
In [2]: df=pd.read_csv("/kaggle/input/fifa-world-cup-qatar-2022/matches_1930_2022.csv",
        encoding="latin-1")
        df.head()
```

Out[2]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
0	Opening match	Men's World Cup	1930	Montevideo	Uruguay	France	4	1	NaN	NaN	Group stage	NaN	1930-07-13	15:00:00
1	Match for third place	Men's World Cup	1930	Montevideo	Argentina	USA	6	1	NaN	NaN	Group stage	NaN	1930-07-14	15:00:00
2	Semi-final	Men's World Cup	1930	Montevideo	Uruguay	Yugoslavia	6	1	NaN	NaN	Group stage	NaN	1930-07-17	15:00:00
3	Semi-final at Boca	Men's World Cup	1930	Buenos Aires	Argentina	Yugoslavia	2	1	NaN	NaN	Group stage	NaN	1930-07-19	15:00:00
4	Stadium Pocitos	Men's World Cup	1930	Montevideo	Chile	Mexico	3	0	NaN	NaN	Group stage	NaN	1930-07-13	15:00:00

```
In [3]: df[df.isnull()]
```

Out[3]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
0	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
1	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
2	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
3	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN
4	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN

```
In [4]: df[df.duplicated()]
```

Out[4]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
1008	Group stage	Women's World Cup	2023	Sydney	Spain	Costa Rica	0	1	NaN	NaN	Group stage	Group C	2023-07-31	06:30:00
1009	Group stage	Women's World Cup	2023	Auckland	Japan	Zambia	5	0	NaN	NaN	Group stage	Group C	2023-07-31	09:00:00
1010	Group stage	Women's World Cup	2023	Hamilton	Sweden	South Africa	2	0	NaN	NaN	Group stage	Group G	2023-07-31	09:30:00
1011	Group stage	Women's World Cup	2023	Brisbane	Canada	Ireland	4	0	NaN	NaN	Group stage	Group B	2023-07-31	10:00:00
1012	Group stage	Women's World Cup	2023	Melbourne	Australia	Nigeria	1	0	NaN	NaN	Group stage	Group B	2023-07-31	11:30:00

```
In [5]: df[df.isnull().sum()>0].shape
```

```
(1013, 0)
```

```
In [6]: df[df.duplicated().sum()>0].shape
```

```
(1012, 14)
```

```
In [7]: df[df.duplicated()].sum()
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [8]: df[df.duplicated].sum()
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [9]: df[df.duplicated].sum(axis=1)
```

```
0       0
1       0
2       0
3       0
4       0
       ...
1008    0
1009    0
1010    0
1011    0
1012    0
Length: 1012, dtype: int64
```

```
In [10]: df[df.duplicated].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [11]: df[df.duplicated].shape
```

```
(1012, 14)
```

```
In [12]: df[df.duplicated].sum(axis=1)
```

```
0       0
1       0
2       0
3       0
4       0
       ...
1008    0
1009    0
1010    0
1011    0
1012    0
Length: 1012, dtype: int64
```

```
In [13]: df[df.duplicated].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [14]: df[df.duplicated].shape
```

```
(1012, 14)
```

```
In [15]: df[df.duplicated].sum(axis=1)
```

```
0       0
1       0
2       0
3       0
4       0
       ...
1008    0
1009    0
1010    0
1011    0
1012    0
Length: 1012, dtype: int64
```

```
In [16]: df[df.duplicated].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [17]: df[df.duplicated]
```

Out[17]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
1008	Group stage	Women's World Cup	2023	Sydney	Spain	Costa Rica	0	1	NaN	NaN	Group stage	Group C	2023-07-31	06:30:00
1009	Group stage	Women's World Cup	2023	Auckland	Japan	Zambia	5	0	NaN	NaN	Group stage	Group C	2023-07-31	09:00:00
1010	Group stage	Women's World Cup	2023	Hamilton	Sweden	South Africa	2	0	NaN	NaN	Group stage	Group G	2023-07-31	09:30:00
1011	Group stage	Women's World Cup	2023	Brisbane	Canada	Ireland	4	0	NaN	NaN	Group stage	Group B	2023-07-31	10:00:00
1012	Group stage	Women's World Cup	2023	Melbourne	Australia	Nigeria	1	0	NaN	NaN	Group stage	Group B	2023-07-31	11:30:00

```
In [18]: df[df.sample(5)]
```

Out[18]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
1	Match for third place	Men's World Cup	1930	Montevideo	Argentina	USA	6	1	NaN	NaN	Group stage	NaN	1930-07-14	15:00:00
2	Semi-final	Men's World Cup	1930	Montevideo	Uruguay	Yugoslavia	6	1	NaN	NaN	Group stage	NaN	1930-07-17	15:00:00
3	Semi-final at Boca	Men's World Cup	1930	Buenos Aires	Argentina	Yugoslavia	2	1	NaN	NaN	Group stage	NaN	1930-07-19	15:00:00
4	Stadium Pocitos	Men's World Cup	1930	Montevideo	Chile	Mexico	3	0	NaN	NaN	Group stage	NaN	1930-07-13	15:00:00
5	Opening match	Men's World Cup	1934	Rome	Italy	USA	7	1	NaN	NaN	Group stage	NaN	1934-05-27	16:00:00

```
In [19]: df[df.sample(5)]
```

Out[19]:

	match_id	competition	season	city	home_team	away_team	home_score	away_score	extra	penalties	stage	group	match_date	kick_off_at
1	Match for third place	Men's World Cup	1930	Montevideo	Argentina	USA	6	1	NaN	NaN	Group stage	NaN	1930-07-14	15:00:00
2	Semi-final	Men's World Cup	1930	Montevideo	Uruguay	Yugoslavia	6	1	NaN	NaN	Group stage	NaN	1930-07-17	15:00:00
3	Semi-final at Boca	Men's World Cup	1930	Buenos Aires	Argentina	Yugoslavia	2	1	NaN	NaN	Group stage	NaN	1930-07-19	15:00:00
4	Stadium Pocitos	Men's World Cup	1930	Montevideo	Chile	Mexico	3	0	NaN	NaN	Group stage	NaN	1930-07-13	15:00:00
5	Opening match	Men's World Cup	1934	Rome	Italy	USA	7	1	NaN	NaN	Group stage	NaN	1934-05-27	16:00:00

```
In [20]: df[df.sample(5).sum()]
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [21]: df[df.sample(5).sum(axis=1)]
```

```
0       0
1       0
2       0
3       0
4       0
       ...
1008    0
1009    0
1010    0
1011    0
1012    0
Length: 1012, dtype: int64
```

```
In [22]: df[df.sample(5).sum(axis=0)]
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [23]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [24]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [25]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [26]: df[df.sample(5).sum(axis=1)]
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [27]: df[df.sample(5).sum(axis=0)]
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [28]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [29]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [30]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [31]: df[df.sample(5).sum(axis=1)]
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [32]: df[df.sample(5).sum(axis=0)]
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [33]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [34]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [35]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [36]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [37]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [38]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [39]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [40]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [41]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [42]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [43]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [44]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [45]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [46]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [47]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [48]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [49]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [50]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [51]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [52]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [53]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [54]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [55]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [56]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [57]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [58]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [59]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [60]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [61]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [62]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [63]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [64]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [65]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [66]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [67]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [68]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [69]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [70]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [71]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [72]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [73]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [74]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [75]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [76]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [77]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [78]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [79]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [80]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [81]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [82]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [83]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [84]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [85]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [86]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [87]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [88]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [89]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [90]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [91]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [92]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [93]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [94]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [95]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [96]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [97]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [98]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [99]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [100]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [101]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [102]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [103]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [104]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [105]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [106]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [107]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [108]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [109]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [110]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [111]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [112]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [113]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [114]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [115]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [116]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [117]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [118]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [119]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [120]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [121]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [122]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [123]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [124]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [125]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [126]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [127]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [128]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [129]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [130]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [131]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [132]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [133]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [134]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [135]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [136]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [137]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [138]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [139]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [140]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [141]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [142]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [143]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [144]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [145]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [146]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [147]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [148]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [149]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [150]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [151]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [152]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [153]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [154]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [155]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [156]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [157]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [158]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [159]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [160]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [161]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [162]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [163]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [164]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [165]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [166]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [167]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [168]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [169]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [170]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [171]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [172]: df[df.sample(5)].sum(axis=0)
```

```
match_id        0
competition     0
season          0
city            0
home_team       0
away_team       0
home_score      0
away_score      0
extra           0
penalties       0
stage           0
group           0
match_date      0
kick_off_at     0
dtype: int64
```

```
In [173]: df[df.sample(5)].shape
```

```
(5, 14)
```

```
In [174]: df[df.sample(5)].sum(axis=1)
```

```
1    0
2    0
3    0
4    0
5    0
dtype: int64
```

```
In [175]: df[df.sample(5)].sum(ax
```