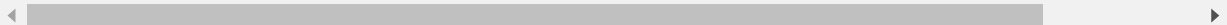


```
In [1]: import pandas as pd
```

```
In [2]: df=pd.read_csv('D:\Project\Game Sales\Game.csv')
df.head(5)
```

Out[2]:

|   | Rank | Name                  | Platform | Year | Genre    | Publisher | NA_Sales | EU_Sales | JP_Sales | Other_Sales |
|---|------|-----------------------|----------|------|----------|-----------|----------|----------|----------|-------------|
| 0 | 3    | Mario Kart Wii        | Wii      | 2008 | Racing   | Nintendo  | 15.85    | 12.88    | 3.79     | 3.31        |
| 1 | 4    | Wii Sports Resort     | Wii      | 2009 | Sports   | Nintendo  | 15.75    | 11.01    | 3.28     | 2.96        |
| 2 | 6    | Tetris                | GB       | 1989 | Puzzle   | Nintendo  | 23.20    | 2.26     | 4.22     | 0.58        |
| 3 | 7    | New Super Mario Bros. | DS       | 2006 | Platform | 64        | 11.38    | 9.23     | 6.50     | 2.90        |
| 4 | 8    | Wii Play              | Wii      | 2006 | Misc     | Nintendo  | 14.03    | 9.20     | 2.93     | 2.85        |



```
In [5]: import numpy as np
cnt=0
for row in df['Publisher']:
    try:
        int(row)
        df.loc[cnt,'Publisher']=np.nan
    except ValueError:
        pass
    cnt+=1
```

```
In [6]: df.isnull().sum()
```

```
Out[6]: Rank      0
        Name      0
        Platform  0
        Year      0
        Genre     0
        Publisher  1
        NA_Sales  0
        EU_Sales  0
        JP_Sales  0
        Other_Sales 0
        Global_Sales 0
        dtype: int64
```

```
In [7]: df['Publisher'].fillna(str(df['Publisher'].mode().values[0]),inplace=True)
```

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

```
Out[8]: Rank      0
        Name      0
        Platform  0
        Year      0
        Genre     0
        Publisher  0
        NA_Sales  0
        EU_Sales  0
        JP_Sales  0
        Other_Sales 0
        Global_Sales 0
        dtype: int64
```

```
In [9]: df.head(5)
```

```
Out[9]:
```

|   | Rank | Name           | Platform | Year | Genre  | Publisher | NA_Sales | EU_Sales | JP_Sales | Other_Sales |
|---|------|----------------|----------|------|--------|-----------|----------|----------|----------|-------------|
| 0 | 3    | Mario Kart Wii | Wii      | 2008 | Racing | Nintendo  | 15.85    | 12.88    | 3.79     | 3.31        |

|   | Rank | Name                  | Platform | Year | Genre    | Publisher       | NA_Sales | EU_Sales | JP_Sales | Other_Sales |
|---|------|-----------------------|----------|------|----------|-----------------|----------|----------|----------|-------------|
| 1 | 4    | Wii Sports Resort     | Wii      | 2009 | Sports   | Nintendo        | 15.75    | 11.01    | 3.28     | 2.96        |
| 2 | 6    | Tetris                | GB       | 1989 | Puzzle   | Nintendo        | 23.20    | 2.26     | 4.22     | 0.58        |
| 3 | 7    | New Super Mario Bros. | DS       | 2006 | Platform | Electronic Arts | 11.38    | 9.23     | 6.50     | 2.90        |
| 4 | 8    | Wii Play              | Wii      | 2006 | Misc     | Nintendo        | 14.03    | 9.20     | 2.93     | 2.85        |

In [11]: `df.iloc[3][5]`

Out[11]: 'Electronic Arts'

In [12]: `df.iat[3,5]`

Out[12]: 'Electronic Arts'

In [13]: `df.iat[3,5]='Nintendo'`

In [14]: `df.head(5)`

Out[14]:

|   | Rank | Name              | Platform | Year | Genre  | Publisher | NA_Sales | EU_Sales | JP_Sales | Other_Sales |
|---|------|-------------------|----------|------|--------|-----------|----------|----------|----------|-------------|
| 0 | 3    | Mario Kart Wii    | Wii      | 2008 | Racing | Nintendo  | 15.85    | 12.88    | 3.79     | 3.31        |
| 1 | 4    | Wii Sports Resort | Wii      | 2009 | Sports | Nintendo  | 15.75    | 11.01    | 3.28     | 2.96        |
| 2 | 6    | Tetris            | GB       | 1989 | Puzzle | Nintendo  | 23.20    | 2.26     | 4.22     | 0.58        |

|  | Rank | Name | Platform              | Year | Genre | Publisher | NA_Sales | EU_Sales | JP_Sales | Other_Sales |      |
|--|------|------|-----------------------|------|-------|-----------|----------|----------|----------|-------------|------|
|  | 3    | 7    | New Super Mario Bros. | DS   | 2006  | Platform  | Nintendo | 11.38    | 9.23     | 6.50        | 2.90 |
|  | 4    | 8    | Wii Play              | Wii  | 2006  | Misc      | Nintendo | 14.03    | 9.20     | 2.93        | 2.85 |

```
In [15]: path=('D:\Project\Game Sales\Game.csv')
df.to_csv(path,index=False)
```

```
In [ ]:
```