

## Exercise (Part 3)

```
In [18]: import pandas as pd
meteorites = pd.read_csv('Meteorite_Landings.csv')
meteorites.head()
```

```
Out[18]:
```

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoLocation
0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333	(50.775, 6.08333)
1	Aarhus	2	Valid	H6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333	(56.18333, 10.23333)
2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000	(54.21667, -113.0)
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000	(16.88333, -99.9)
4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000	(-33.16667, -64.95)

```
In [19]: meteorites.dtypes
```

```
Out[19]: name          object
id             int64
nametype       object
recclass       object
mass (g)       float64
fall           object
year           object
reclat         float64
reclong        float64
GeoLocation    object
dtype: object
```

```
In [20]: meteorites.year[2].split(" ")[0].split("/")[2]
```

```
Out[20]: '1952'
```

```
In [21]: type(meteorites.year[0])
```

```
Out[21]: str
```

```
In [22]: meteorites.fillna(0)
```

Out[22]:

	name	id	nametype	recclass	mass (g)	fall	year	reclat	reclong	GeoLocation
0	Aachen	1	Valid	L5	21.0	Fell	01/01/1880 12:00:00 AM	50.77500	6.08333	(50.775, 6.08333)
1	Aarhus	2	Valid	H6	720.0	Fell	01/01/1951 12:00:00 AM	56.18333	10.23333	(56.18333, 10.23333)
2	Abee	6	Valid	EH4	107000.0	Fell	01/01/1952 12:00:00 AM	54.21667	-113.00000	(54.21667, -113.0)
3	Acapulco	10	Valid	Acapulcoite	1914.0	Fell	01/01/1976 12:00:00 AM	16.88333	-99.90000	(16.88333, -99.9)
4	Achiras	370	Valid	L6	780.0	Fell	01/01/1902 12:00:00 AM	-33.16667	-64.95000	(-33.16667, -64.95)
...	...	...	...	...	...	...	...	...	...	...
45711	Zillah 002	31356	Valid	Eucrite	172.0	Found	01/01/1990 12:00:00 AM	29.03700	17.01850	(29.037, 17.0185)
45712	Zinder	30409	Valid	Pallasite, ungrouped	46.0	Found	01/01/1999 12:00:00 AM	13.78333	8.96667	(13.78333, 8.96667)
45713	Zlin	30410	Valid	H4	3.3	Found	01/01/1939 12:00:00 AM	49.25000	17.66667	(49.25, 17.66667)
45714	Zubkovsky	31357	Valid	L6	2167.0	Found	01/01/2003 12:00:00 AM	49.78917	41.50460	(49.78917, 41.5046)
45715	Zulu Queen	30414	Valid	L3.7	200.0	Found	01/01/1976 12:00:00 AM	33.98333	-115.68333	(33.98333, -115.68333)

45716 rows × 10 columns

```
In [27]: newlist = []
for i, j in meteorites.iterrows():
    newlist.append(str(j.year).split()[0].split('/')[2])
```

```
newlist
```

-----  
**IndexError** Traceback (most recent call last)

Cell **In[27]**, line 3

```
1 newlist = []  
2 for i, j in meteorites.iterrows():  
----> 3     newlist.append(str(j.year).split()[0].split('/')[2])  
5 newlist
```

**IndexError:** list index out of range

In [ ]: