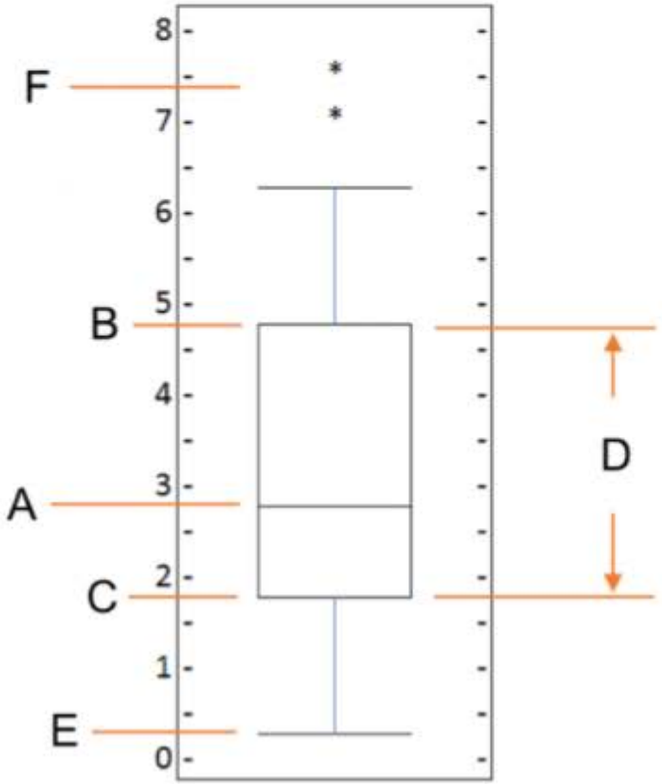
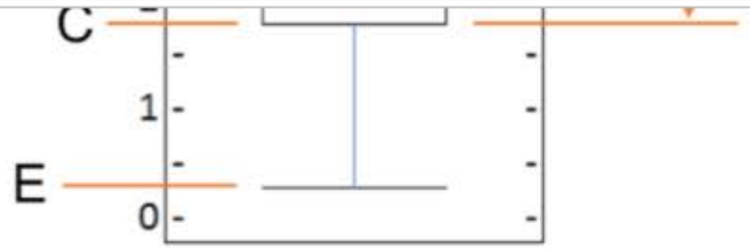
Specialized Visualization Tools

Latest Submission Grade 66.66%

1. 1 / 1 point





What do the letters in the box plot above represent?

- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- A = Mean, B = Upper Mean Quartile, C = Lower Mean Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- A = Median, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Outliers
- A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum

Correct
Correct.

- A = Median, B = Third Quartile, C = Mean, D = Inter Quartile Range, E = Lower Quartile, and F = Outliers
- A = Mean, B = Third Quartile, C = First Quartile, D = Inter Quartile Range, E = Minimum, and F = Maximum

Correct
Correct.

2. What is the correct combination of function and parameter to create a box plot in Matplotlib? **0 / 1 point**

- Function = plot, and Parameter = type with value = "box"
- Function = plot, and Parameter = kind with value = "boxplot"
- Function = boxplot, and Parameter = type with value = "plot"
- Function = plot, and Parameter = kind with value = "box"
- Function = box, and Parameter = type with value = "plot"

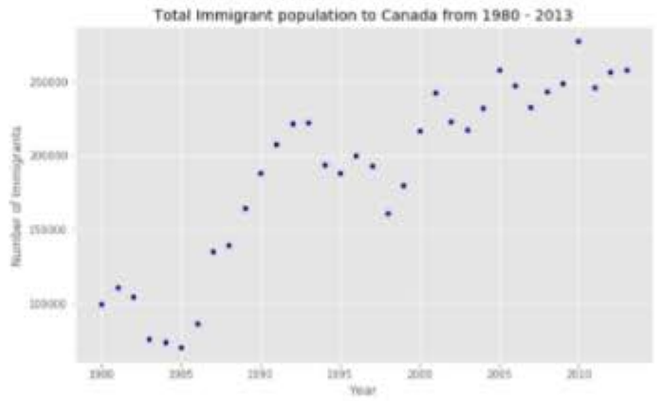
Incorrect
Incorrect. Function = plot, and Parameter = kind with value = "box".

Incorrect
Incorrect. Function = plot, and Parameter = kind with value = "box".

3. Which of the lines of code below will create the following scatter plot, given the *pandas* dataframe, df_total? **1 / 1 point**

df_total

year	total
1980	99137
1981	110563
1982	104271
1983	75550
1984	73417
.	.
.	.
2013	258654




```
1  import matplotlib.pyplot as plt
2
3  df_total.plot(kind='scatter', x='year', y='total')
4
5  plt.title('Total Immigrant population to Canada from 1980 - 2013')
```

```
1  import matplotlib.pyplot as plt
2
3  df_total.plot(kind='scatter', x='year', y='total')
4
5  plt.title('Total Immigrant population to Canada from 1980 - 2013')
6  plt.xlabel ('Year')
7  plt.ylabel('Number of Immigrants')
```

```
1  import matplotlib.scripting.pyplot as plt
2
3  df_total.plot(type='scatter', y='year', x='total')
4
5  plt.title('Total Immigrant population to Canada from 1980 - 2013')
6  plt.xlabel ('Year')
7  plt.ylabel('Number of Immigrants')
```

```
7  plt.label('Number of Immigrants')
```

```
import matplotlib.pyplot as plt

df_total.plot(type='scatter', x='year', y='total')

plt.title('Total Immigrant population to Canada from 1980 - 2013')
plt.label ('Year')
plt.label('Number of Immigrants')
```

```
plt.label('Number of Immigrants')
```

Correct
Correct.