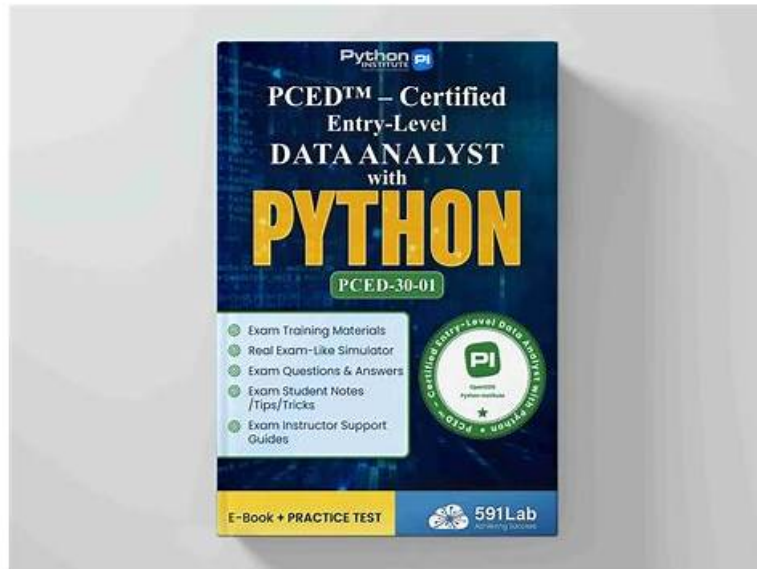


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Python Institute PCED - Certified Entry-Level Data Analyst with Python Sample Questions (Q11-Q16):

NEW QUESTION # 11

You are given the following list of daily step counts:

```
steps = [8230, 9020, 7640, 8760, 10020, 2546, 9817]
```

Your task is to calculate:

- the standard deviation of the step counts,

- the average rounded up to the nearest whole number, and
- the median of the step counts.

Which code snippet correctly performs all three tasks? Select the best answer.

import statistics

- A. import math
print(statistics.variance(steps))
print(math.ceil(sum(steps) / len(steps)))
print(math.floor(statistics.median(steps)))
import statistics
- B. import math
print(math.stdev(steps))
print(statistics.mean(steps))
print(statistics.median(steps))
import statistics
- C. import math
print(statistics.stdev(steps))
print(round(math.mean(steps)))
print(math.median(steps))
import statistics
- D. import math
print(statistics.stdev(steps))
print(math.ceil(statistics.mean(steps)))
print(statistics.median(steps))

Answer: D

Explanation:

It uses statistics.stdev() to compute the standard deviation, statistics.mean() to compute the average and math.ceil() to round it up to the nearest whole number, and statistics.median() to compute the median.

NEW QUESTION # 12

You are analyzing survey results from students about their favorite colors. The list colors stores individual responses:

```
colors = ["blue", "green", "blue", "red", "green",
         "blue", "yellow", "red", "purple", "green",
         "blue", "orange", "yellow", "blue", "green"]
```

You want to:

- find the number of unique colors mentioned using NumPy, and
- determine how often each color was chosen using Counter.

Which code snippet correctly performs both tasks? Select the best answer.

from numpy import unique

- A. from collections import Counter
unique_colors = len(set(colors))
color_counts = np.unique(colors)
- B. from collections import Counter
unique_colors = Counter(colors)
color_counts = sum(np.unique(colors))
import numpy as np
- C. from collections import Counter
unique_colors = np.unique(colors)
color_counts = Counter(set(colors))
import numpy as np
- D. from collections import Counter
unique_colors = len(unique(colors))
color_counts = Counter(colors)
import numpy as np

Answer: D

Explanation:

`numpy.unique` returns the distinct values in the list, and taking its length gives the number of unique colors. `Counter(colors)` correctly counts how many times each color appears in the responses.

NEW QUESTION # 13

A healthcare provider analyzes patient records to determine that appointment cancellations spike during weather alerts and flu season.

What type of analytics is this?

- A. Prescriptive analytics - it automates patient rescheduling based on cancellation patterns.
- B. Descriptive analytics - it reports appointment numbers across past seasons.
- C. Predictive analytics - it uses weather and illness trends to forecast future cancellations.
- **D. Diagnostic analytics - it identifies reasons behind patterns in patient behavior.**

Answer: D

Explanation:

It examines existing data to understand why cancellations increase, identifying underlying causes such as weather alerts and flu season, which characterizes diagnostic analytics.

NEW QUESTION # 14

A program uses slicing on a string "Python". The expression `s[1:4]` is evaluated. Which substring will be returned?

- A. ytho
- B. ythn
- C. tho
- **D. yth**

Answer: D

Explanation:

Slicing includes the start index but excludes the end index. Characters at indices 1, 2, and 3 are selected, producing the substring "yth".

NEW QUESTION # 15

A Python loop uses `range(5, 0, -2)` to iterate backward. The programmer expects a decreasing sequence. Which values will actually be generated when this loop runs?

- A. 4, 2, 0
- **B. 5, 3, 1**
- C. 5, 3
- D. 5, 4, 3, 2, 1

Answer: B

Explanation:

The range starts at 5 and decreases by 2 each step until it reaches a value greater than 0. The generated sequence is 5, 3, and 1.

NEW QUESTION # 16

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