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i Answers are displayed within the problem

how types affect execution, part 3

1/1 point (graded)

Here is the same program one more time, again with different starting values for the data list.

```
# assume Python 2
data = [ "1", "2", "3" ]
total = 0
average = 0
n = 0
for value in data:
    n += 1
    total += value
    average = total / n
    print "average:", average
```

Now what averages are printed?

☐ 1, 1.5, 2

☐ "1", "1.5", "2"

☐ 1, 6, 41

☐ error before the program starts

☒ error while the program is running



Explanation

This program fails with an error as soon as it tries to run `total += value`, because `value` is a string but `total` is an int. Python has no `+=` operator that adds a string to an int, so it stops running with a type error.

You can [try this yourself on Python Tutor](#).

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