ch1-4 Review Quiz

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CMPT14x
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Quiz 2: 10 minutes, 20 points

Which are legal Python variable names? Why?

num-applesBEGINfor05LabScore_3Paul's_age

- Contrast static typing vs. dynamic typing. Pros/Cons?
- Describe at least four kinds of documentation (internal or external) you should have in your Python programs.
- Write a complete Python program to evaluate and print the value of the sum 1 + 2 + 3 + ... + 999 + 1000.
 - Docstring / comments not necessary but useful for partial credit.



Quiz 02: answers #1

- Which are legal Python variable names? Why?
 - num-apples: not okay (punctuation)
 - BEGIN: okay
 - for: not okay (reserved word)
 - 05LabScore: not okay (starts with number)
 - 3: okay (albeit poor style!)
 - Paul's_age: not okay (punctuation)



Quiz 02: answers #2-3

- Contrast static typing vs. dynamic typing.
 - Static typing: variables cannot change type
 - Must declare type of variable and initialize value
 - Compiler enforces correct type
 - •Dynamic typing: can change type
 - More flexible, but usually we don't want variables to change type
- Describe at least four kinds of documentation (internal or external) you should have in your Python programs.
 - Comments, docstrings, online help/prompts, user manual, programmers' diary, variable names



Quiz 02: answers #4

- Write a complete Python program to evaluate and print the value of the sum 1 + 2 + 3 + ... + 999 + 1000.
 - While loop or for loop:

```
sum = 0
for counter in range(1, 1001):
    sum += counter
print "The sum is", sum
```

• Or:

print "The sum is 500500"

