

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-apples

BEGIN

for

05LabScore

_3

Paul'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 **$1 + 2 + 3 + \dots + 999 + 1000$** .
 - ◆ 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 $1 + 2 + 3 + \dots + 999 + 1000$.

- **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"
```