

QUIZ!

Use a full sheet of 8½x11" paper. (Half sheet? Half credit!)

Put only your last name in the far upper left hand corner of the sheet, where a staple would hit it. It's OK to write **BIG**, just start in the corner!

*Mitchell*

**AVOID A ½-POINT DEDUCTION!**

Keep answers short! Avoid full sentences. Feel free to abbreviate.

7 questions; 3 minutes; 4 points. Plus a ½ point E.C. question.

Numbering responses may help you avoid overlooking a question. You may go ahead and number your paper.

For questions with code, assume it's Ruby code.

Quiz 6, February 25, 2016  
3 minutes;  $1 + (\frac{1}{2} * 6)$  points

1. What's a fundamental characteristic of a statically typed language? (one point)
2. Name a language that uses static typing.
3. Name a language that uses dynamic typing.
4. Assuming `s = "abcdef"`, what's the value of `s[1, 3]`?
5. Assuming `s = "abcd"`, what's the value of `s[1..-1]`?
6. What's a key difference between Ruby arrays and Haskell lists?
7. What program provides a REPL for Ruby?

EC: Who invented Ruby?

## Solutions

1. *What's a fundamental characteristic of a statically typed language? (one point)*

The type of every expression can be determined without running the code.

2. *Name a language that uses static typing.* Java, Haskell, C

3. *Name a language that uses dynamic typing.* Ruby, Python, Icon

4. *Assuming  $s = \text{"abcdef"}$ , what's the value of  $s[1, 3]$ ? **"bcd"***

5. *Assuming  $s = \text{"abcd"}$ , what's the value of  $s[1..-1]$ ? **"bcd"***

6. *What's a key difference between Ruby arrays and Haskell lists?*

*Ruby arrays are heterogeneous—they can hold a mix of types.*

7. *What program provides a REPL for Ruby? **irb***

*EC: Who invented Ruby? Yukihiro Matsumoto ("Matz" ok!)*