

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.

6 questions; 3 minutes; 3 points.

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

Quiz 2, January 21, 2016

3 minutes; 3 points

1. Write a Java expression that has a side effect.
2. Write a Haskell function that computes the area of a rectangle given its width and height. Append `:: Int` to force it to operate on `Ints`.
3. What's the type of the function you wrote in the previous problem?
4. What does REPL stand for? Or, what's the essential functionality provided by a REPL?
5. What's a characteristic of the functional programming paradigm?
6. Imagine that `:type f` shows this: `Foo a => a -> Char`
What does that type mean?

Solutions

1. Write a Java expression that has a side effect. **x++**
2. Write a Haskell function that computes the area of a rectangle given its width and height. Append **:: Int** to force it to operate on **Ints**. **area w h = w * h :: Int**
3. What's the type of the function you wrote in the previous problem?
Int -> Int -> Int
4. What does REPL stand for? Or, what's the essential functionality provided by a REPL? Read-Eval-Print Loop
5. What's a characteristic of the functional programming paradigm?
See slides 24-25. My quick answer: "functions are values"
6. Imagine that **:type f** shows this: **Foo a => a -> Char**
What does that type mean?
f is a function that requires a value whose type is a member of the type class **Foo**. **f** produces a **Char**.