

QUIZ!

Quiz Stuff

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

Put your last name and NetID in the far upper left hand corner of the paper, **where a staple would hit it.** (It helps us sort quizzes!)

Mitchell, whm

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No need to write out questions.

Numbering responses may help you avoid overlooking a question; it's ok to go ahead and pre-number your sheet.

It's ok to abbreviate, like using "otw" for "otherwise".

Quiz 3, January 27, 2014

3 minutes; 1/1/2 points; 4 points total + 1/2 point extra credit

1. Write a function **f** such that **f x** returns **7**, no matter what the value of **x** is.
2. Given a function **g** with type **Char -> (Int -> Bool)**, what is the type of each of the following two expressions?
g 'x'
g 'x' 5
3. Using guards to handle cases, write a function **roman** such that
roman 5 returns **'V'**
roman 10 returns **'X'**
roman anything else returns **'?'**
4. Extra credit (1/2 point): What's the type of **roman**?

1. `f x = 7`
2. `> let g char ordval = ord char == ordval`

```
> :type g  
g :: Char -> Int -> Bool
```

```
> :type g 'x'  
g 'x' :: Int -> Bool
```

```
> :type g 'x' 5  
g 'x' 5 :: Bool
```

3. roman n

| n == 5 = 'V'

| n == 10 = 'X'

| otherwise = '?'

> roman 5

'V'

> roman 10

'X'

> roman 3

'?'

> :type roman

roman :: (Eq a, Num a) => a -> Char