

this is week 10

fall 2013

playlist50

Carried Away (Passion Pit)

Such Great Heights (The Postal Service)

Send Me on My Way (Rusted Root)

agenda

resources

questions

coding

# resources

lecture notes & source code

[cs50.net/shorts](https://cs50.net/shorts)

[study.cs50.net](https://study.cs50.net)

man

Google

[cs50.net/discuss](https://cs50.net/discuss)

OHs

me!

# Quiz 1

Wed 11/20

75 minutes

covers 0-11; emphasizes 7 onward  
two-sided "one-pager"

T-minus one

questions

live debugging

file i/o

structs

linked lists

hash tables

tries

stacks

queues

trees

HTTP

DNS

TCP/IP

HTML

PHP

MVC

cookies

SQL

JavaScript

DOM

ajax

security

SQL injection attack

...

coding

// TODO



# strategy

// logic

draw a picture

write some pseudocode

// syntax

map it onto C

code the program

# BSTs (Fall 2012)

The following defines a node in a binary search tree:

```
typedef struct node
{
    int i;
    struct node* left;
    struct node* right;
}
node;
```

Given a BST rooted at `root`, complete the implementation of `find` below both with and without recursion. Do not assume that `root` will be non-NULL.

```
bool find(node* root, int i);
```

# CS50 Associates (Fall 2012)

Consider the PHP array below:

```
$tfs = [  
    ["name" => "Rob", "house" => "Kirkland"],  
    ["name" => "Paul", "house" => "Winthrop"]  
];
```

Write PHP and/or HTML code such that it outputs a 2-column table with TFs' names and houses.

# Sketchy Web Page (Fall 2011)

Consider the HTML below:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Google</title>
  </head>
  <body>
    <form action="/search" method="get">
      <input name="q" type="text" />
      <input name="submit" value="Search" />
    </form>
  </body>
</html>
```

# Sketchy Web Page (Fall 2011)

If this HTML lives at

<http://www.google.com> and a user inputs "bug", at what URL will the user find herself upon submitting the form?

Sketch this HTML's DOM, starting with "document"; you may omit elements' attributes altogether.