



WDI Week 7 Assessment

0. Fill in the hash below with your name and cohort:

```
my_info = { :name => "_____", :cohort => _____ }
```

1. In Ruby, declare a variable called `favorite_food`, and set it equal to your favorite food. Then use your `favorite_food` variable to create a string proclaiming your favorite food: "My favorite food is _____."

2. Write a Ruby regular expression that matches the first digit in a string. For example, your regex should match the 1 in "Party like it's 1999!"

3. Write a method called `fastest` that takes a `speeds` array parameter and *both* prints and returns the fastest speed.

Example Use: `fastest([55, 25, 70, 40])`

```
70  
=> 70
```

Use the Pet class code at the bottom of this page to answer questions 4-6.

4. Use each of the following terms (or letters) to label one example of the term in the Pet class:

- | | |
|----------------------|-------------------|
| A. instance variable | B. class variable |
| C. instance method | D. class method |
| E. getter | F. setter |

5. Create an instance of the Pet class.

6. Use the play_with method on the pet you just created and a toy of "rope".

```
class Pet
  attr_accessor :name
  attr_reader :happiness

  @@all = []

  def initialize(name)
    @name = name
    @happiness = 1
    @@all << self
  end

  def play_with(toy)
    puts "playing with"
    puts toy
    @happiness *= 1.1
  end

  def self.all
    @@all
  end
end
```

Bonus: Create a Dog class that inherits from the Pet class.

7. Define and briefly describe the MVC pattern. (Labeled diagrams work!)

8. Briefly describe the purpose of each of the following in a Rails app:

- **Gemfile** file
- `bundle install` (or `bundle`) command
- **config/routes.rb** file
- **app/controllers/** directory
- **db/schema.rb** file

For the questions on this page, assume you have a Rails app with a Plant resource.

9. Fill in the table below:

Goal	Route verb	Route path	Controller#Action	Database Method(s)
Read all plants in db	GET		plants#index	
Read one plant in db			plants#show	Plant.find(id)
Create a plant in db				p = Plant.new(plant_data) p.save
Update a plant in db		/plants/:id		
Delete a plant in db	DELETE		plants#destroy	
Display a new plant form		/products/new		# for form display: p = Plant.new
Display an edit plant form	GET			

10. List at least 3 steps you'd take while adding a fully functional Garden resource to your app.

11. Given the controller code and view below, replace the `` tag with the appropriate rails view helper.

```
# app/controllers/shoes_controller.rb
def index
  @shoes = Shoe.all
end
```

```
# views/shoes/index.html.erb
<% @shoes.each do |shoe| %>
  <%= shoe.name %> - <a href="/shoes/<%= shoe.id %>">View this Shoe</a>
```

```
<% end %>
```

12. Display the “_foosball.html.erb” partial in the view below.

```
<h2>View the Foosball below!</h2>
<div class='foos'>
```

```
</div>
```