Ruby Lang Scavenger Hunt

July 22, 2014

Scavenger Hunt

Goals

Accelerate your understanding of ruby through practice and documentation usage.

You are allowed to use any previous code you've written and rdoc.

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The Holes

- blocks and references
- class methods and variables
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The Hunt

Task: Find the official ruby implementation of **Vector**. Create a class that inherits **Vector** and implements a *distance* instance method that calculates the total distance (path length) between 2 points.

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Task: With your class from the previous task, implement a *pathlength* **class method** that calculates the total path length for n points.

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The Hunt

Task: Determine whether or not if an expression **Vector** + **Integer** is valid. Write a test that demonstrates the expected behavior of adding an integer to a vector.

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The Hunt

Task: Determine whether or not if an expression
Vector $<<$ *Integer* is valid. Write a test that demonstrates the expected behavior of inserting an integer to a vector. Implement the $<<$ operator to allow for the insertion of an integer into an existing vector.

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The Hunt

Task:

1. Write a test that demonstrates the intended behavior of a **class method** that calculates the angle between two $2-$ *Vectors* in radians.
2. Write a test that demonstrates the intended behavior of a **instance method** that calculates the angle between two $2-$ *Vectors* in radians.
3. Implement both methods on your **Vector** subclass.

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The Hunt

Task

1. Write a test that demonstrates the expected behavior of an instance method *factors* in the **Integer** class that returns the factors of a number.
2. Implement this method by opening the **Integer** class.