```
public class Card {
    private Enum<Suit> suit;
    private Enum<Value> value;

public Card(Enum<Suit> suit, Enum<Value> value) {
        this.suit = suit;
        this.value = value;
    }

Enum<Suit> getSuit() { return suit; }

Enum<Value> getValue() { return value; }

int getValueRanking() { return value.ordinal() + 1; }

String getSuitString() { return suit.toString().toLowerCase(); }

String getValueString() { return value.toString().toLowerCase(); }
```

Public class with private suits/values which are accessible through getters.

```
public abstract class Kaiju implements Damageable, CanAttack {
   String name;
   int healthValue;
   int attackValue;

public Kaiju(String name, int healthValue, int attackValue) {
        this.name = name;
        this.healthValue = healthValue;
        this.attackValue = attackValue;
   }

public String getName() { return name; }

public void setName(String name) { this.name = name; }

public int getHealthValue() { return healthValue; }

public void setHealthValue(int healthValue) { this.healthValue = healthValue; }

public void setAttackValue(int attackValue) { this.attackValue = attackValue; }

public String roar() { return "Roar!!"; }
```

```
public class KumaDesu extends Kaiju{
    public KumaDesu(String name, int healthValue, int attackValue){
        super(name, healthValue, attackValue);
    }
    public String roar() { return "*Roars in bear*"; }
}
```

```
public class SaamonDesu extends Kaiju{
   public SaamonDesu(String name, int healthValue, int attackValue){
        super(name, healthValue, attackValue);
   }
   public String roar() { return "Roars in salmon!!"; }
}
```

```
public class KumaDesuTest {

@Test
public void testCanRoar(){
    KumaDesu kumadesu = new KumaDesu("Boris", 500, 70);
    assertEquals( "*Roars in bear*", kumadesu.roar() );
}

@Test
public void testHasHealth(){
    KumaDesu kumadesu = new KumaDesu("Boris", 500, 70);
    assertEquals( 500, kumadesu.getHealthValue() );
}
```

```
def self.all
  sql = 'SELECT * FROM pets;'
  values = []
  pets_hash = SqlRunner.run(sql, values)
  pets = pets_hash.map { |pet| Pet.new(pet) }
  return pets
end
```

```
db git:(master) × ruby seeds.rb
[[1] pry(main)> Pet.all
=> [#<Pet:0x007fdc85a77f38
  @admission_date="2017-07-15",
  @adoptable="Yes",
  @breed="dog",
  @id=159,
  @name="Douglas McKenzie",
  @picture="/douglas_mckenzie.jpg">,
 #<Pet:0x007fdc85a77d08
  @admission_date="2017-06-22",
  @adoptable="No",
  @breed="cat",
  @id=160,
  @name="Gertrude",
  @picture="/gertrude.png">,
```

```
def self.breed_sort
return Pet.all.sort_by{ |pet| pet.breed }
end
end
```

```
db git:(master) × ruby seeds.rb
[[1] pry(main)> Pet.breed_sort
=> [#<Pet:0x007feebd8cd288
  @admission_date="2017-05-25",
  @adoptable="Yes",
  @breed="bird",
  @id=181,
  @name="Terry",
  @picture="/terry.jpg">,
 #<Pet:0x007feebd8cddc8
  @admission_date="2017-08-12",
  @adoptable="Yes",
  @breed="bird",
  @id=176,
  @name="Birdy McBirdface",
  @picture="/birdy_mcbirdface.jpg">,
 #<Pet:0x007feebd8ce200
  @admission_date="2017-06-22",
  @adoptable="No",
  @breed="cat",
  @id=173,
  @name="Gertrude",
 @picture="/gertrude.png">,
#<Pet:0x007feebd8ce0c0</pre>
  @admission_date="2017-07-25",
  @adoptable="Yes",
  @breed="cat",
  @id=174,
  @name="Prudence",
  @picture="/prudence.jpg">,
```

```
song_spec.rb room.rb

require("./IT5_array_spec")

class Playlist < Minitest::Test

attr_reader(:song_name)

def initialize(song_name)

@song_name = song_name
end

end

end

10

11

end</pre>
```

```
require("minitest/autorun")
require("minitest/rg")
require_relative("./IT5_array.rb")

class TestPlaylist < Minitest::Test

def setup
@playlist = Playlist.new(["Metallica", "Thin Lizzy", "Céline Dion", "AC/DC"])
end

def test_second_artist
    assert_equal("Thin Lizzy", @playlist.second_song)
end

end

end

end
```

```
Random Shizzle — user@CODECLAN015 — ..andom Shizzle — -zsh — 80>
Random Shizzle ruby IT5_array_spec.rb
Run options: --seed 11747

# Running:
.
Finished in 0.001032s, 968.9927 runs/s, 968.9927 assertions/s.

1 runs, 1 assertions, 0 failures, 0 errors, 0 skips
→ Random Shizzle
```

```
def test_first_book
book_title = @library.title_of_first_book
assert_equal( "lord of the rings", book_title )
end
```

Run options: --seed 29577

Running:

. .

Finished in 0.001009s, 1982.1606 runs/s, 1982.1606 assertions/s.

2 runs, 2 assertions, 0 failures, 0 errors, 0 skips

```
public class Student {
    private int knowledge;
    private ArrayList<Codeable> languages;

public Student() {
    knowledge = 0;
    languages = new ArrayList<>();
}

public void code(Codeable language) {
    knowledge += language.getKnowledge();
    languages.add(language);
}

public int getKnowledge() {
    return knowledge;
}
}
```

```
public interface Codeable {
    int getKnowledge();
}
```

```
public class CSharp implements Codeable {
    private int knowledge;

    public CSharp() {
        knowledge = 500;
    }

    public int getKnowledge() {
        return knowledge;
    }
}
```

```
public class Java implements Codeable {
    private int knowledge;

    public Java() {
        knowledge = 1000;
    }

    public int getKnowledge() {
        return knowledge;
    }
}
```