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46 lines (36 sloc) | 943 Bytes

```
1  require_relative "plane"
2  require_relative "weather"
3
4  class Airport
5
6      DEFAULT_CAPACITY = 20
7      attr_reader :airport, :weather
8      attr_accessor :capacity
9
10     def initialize(weather = Weather.new, capacity = DEFAULT_CAPACITY)
11         @airport = []
12         @weather = weather
13         @capacity = capacity
14     end
15
16     def land(plane)
17         raise "There are no flying planes" if plane.flying? == false
18         raise "The airport capacity is full" if full?
19         raise "Cannot land the plane in stormy weather" if stormy?
20         plane.state = false
21         @airport << plane
22     end
23
24     def take_off
25         raise "There are no planes available" if empty?
26         raise "The plane cannot take off as weather is stormy" if stormy?
27         plane = @airport.pop
28         plane.state = true
29         "The plane #{plane} has left the airport"
30     end
31
32     private
33
34     def empty?
35         @airport.empty?
36     end
37
38     def stormy?
39         @weather.stormy? == true
40     end
41
42     def full?
43         @airport.count >= DEFAULT_CAPACITY
44     end
45 end
```

Tree: 3cd624d63a ▼

airport_challenge / lib / plane.rb

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17 lines (12 sloc) | 164 Bytes

```
1  class Plane
2
3    attr_accessor :flying
4
5    def initialize
6      @flying = true
7    end
8
9    def flying?
10     @flying
11   end
12
13   def state=(state)
14     @flying = state
15   end
16 end
```

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airport_challenge / lib / weather.rb

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9 lines (6 sloc) | 94 Bytes

```
1  class Weather
2
3    attr_reader :stormy
4
5    def stormy?
6      rand(5) == 1 ? true : false
7    end
8  end
```

Tree: 3cd624d63a ▾ airport_challenge / spec / airport_spec.rb

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58 lines (47 sloc) | 1.81 KB

1

require 'airport'

2

require 'plane'

3

require 'weather'

4

5

describe Airport do

6

let(:plane) { double(:plane, :flying? => true, :state= => true) }

7

let(:weather) { double(:weather) }

8

subject(:airport) { described_class.new(weather) }

9

10

before do

11

allow(weather).to receive(:stormy?) { false }

12

end

13

14

describe "#land" do

15

it "should land a plane at an airport if plane is flying" do

16

expect(subject.land(plane)).to include plane

17

end

18

end

19

20

it "should raise error if there are no flying planes" do

21

allow(plane).to receive(:flying?) { false }

22

expect { subject.land(plane) }.to raise_error "There are no flying planes"

23

end

24

25

it "should show if there are planes in the airport" do

26

subject.land(plane)

27

expect(subject.airport).to include plane

28

end

29

30

it "should prevent landing in stormy weather" do

31

allow(weather).to receive(:stormy?) { true }

32

expect { subject.land(plane) }.to raise_error "Cannot land the plane in stormy weather"

33

end

34

35

it "should prevent landing when capacity is full" do

36

Airport::DEFAULT_CAPACITY.times { subject.land(Plane.new) }

37

expect { subject.land(Plane.new) }.to raise_error("The airport capacity is full")

38

end

39

40

describe "#take_off" do

41

it "should let a plane take off from an airport if weather is sunny" do

42

subject.land(plane)

43

allow(weather).to receive(:stormy?) { false }

44

expect(subject.take_off).to eq "The plane #{plane} has left the airport"

45

end

46

47

it "raises an error when the airport is empty" do

48

expect { subject.take_off }.to raise_error("There are no planes available")

49

end

50

51

it "prevents take off when weather is stormy" do

52

subject.land(plane)

53

allow(weather).to receive(:stormy?) { true }

54

expect { subject.take_off }.to raise_error("The plane cannot take off as weather is stormy")

55

end

56

end

57

end

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airport_challenge / [spec](#) / **feature_spec.rb**

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5 lines (4 sloc) | 76 Bytes

```
1 # require "./lib/airport"
2 #
3 # p plane = Plane.new
4 # p airport = Airport.new
```

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airport_challenge / spec / plane_spec.rb

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17 lines (12 sloc) | 238 Bytes

1

require "plane"

2

3

describe Plane do

4

5

describe "#flying" do

6

it "is flying" do

7

expect(subject).to be_flying

8

end

9

10

it "is not flying" do

11

subject.state = false

12

expect(subject).not_to be_flying

13

end

14

end

15

16

end

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airport_challenge / spec / weather_spec.rb

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10 lines (8 sloc) | 206 Bytes

```
1  require "weather"
2
3  describe Weather do
4    describe "#stormy" do
5      it "returns true or false for a randomised weather condition" do
6        expect(subject.stormy?).to eq(true).or(eq(false))
7      end
8    end
9  end
```