makersacademy / airport_challenge

end

end

8

Tree: 09eaac1204 ▼

airport_challenge / lib / airport.rb

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```
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```
63 lines (47 sloc) | 1.12 KB
       require_relative 'Plane'
  1
  2
       require_relative 'Weather'
  3
  4
       class Airport
  5
  6
         DEFAULT_CAPACITY = 50
  7
         attr_reader :planes
  8
         attr_accessor :capacity, :weather
  9
  10
         def initialize(capacity: DEFAULT_CAPACITY, weather: Weather.new)
  11
           @planes = []
  12
           @capacity = capacity
  13
  14
           @weather = weather
  15
         end
  16
 17
         def land(plane)
           raise "This airport is full" if full?
  18
  19
           raise "This plane cannot land until the weather clears up" if stormy?
  20
           expect_plane(plane)
           plane.land(self)
  21
  22
           @expected_plane = nil
  23
           @planes << plane</pre>
  24
         end
  25
  26
         def takeoff(plane)
           raise "That plane is not at this airport" unless @planes.include?(plane)
  27
           raise "This plane cannot take off until the weather clears up" if stormy?
  28
  29
           send_to_runway(plane)
           plane.takeoff
  30
  31
           @on_runway = nil
  32
           @planes.delete(plane)
  33
         end
  34
  35
         def send_to_runway(plane)
           @on runway = plane
  36
 37
 38
  39
         def expect_plane(plane)
           @expected_plane = plane
 40
 41
         end
 42
         def plane_expected?(plane)
 43
 44
           plane == @expected plane
 45
         end
  46
 47
         def on_runway?(plane)
           plane == @on_runway
 48
 49
 50
 51
       private
 52
 53
         def stormy?
 54
           @weather.stormy?
 55
         end
 56
 57
         def full?
 58
           @planes.length >= @capacity
 59
         end
  60
 61
  62
       end
```

Tree: 09eaac1204 ▼

airport_challenge / lib / plane.rb

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```
30 lines (19 sloc) 700 Bytes
       require_relative 'Airport'
  2
       require_relative 'Weather'
  3
  4
       class Plane
  5
  6
         attr_reader :status
  7
  8
         def initialize
  9
          @status = "In the air"
  10
  11
  12
         def land(airport)
          raise "Plane is already on the ground" if @status != "In the air"
 13
           # If airport called this method, sets status to airport
  14
           # If plane called this method, notifies airport and makes airport call the method
 15
  16
           # This way, both the plane and airport can initiate a landing
           airport.plane_expected?(self) ? @status = airport : airport.land(self)
 17
  18
         end
  19
         def takeoff
  20
           raise "Plane is already in the air" if @status == "In the air"
  21
  22
           @status.on_runway?(self) ? @status = "In the air" : @status.takeoff(self)
  23
         end
  24
  25
  26
  27
  28
  29
       end
```

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end

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```
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93 lines (67 sloc) 2.44 KB
  1
       require 'airport'
  2
   3
       describe Airport do
  4
       let :plane {double(:plane, takeoff: nil, land: nil, status: subject)}
       let :weather {double(:weather, stormy?: false)}
  5
       subject {Airport.new(weather: weather)}
  6
  7
  8
         it "has no planes when it first opens" do
  9
           expect(subject.planes).to be_empty
  10
  11
         describe '#land' do
  12
           it "can have a plane land at it" do
  13
  14
             expect(subject.land(plane)).to include plane
  15
           end
  16
           it "should be able to order planes to land" do
  17
             subject.land(plane)
  18
  19
             expect(plane.status).to eq subject
  20
           end
  21
  22
           it "stops planes landing in stormy conditions" do
  23
             allow(weather).to receive(:stormy?) { true }
  24
  25
             expect{ subject.land(plane) }.to raise_error "This plane cannot land until the weather clears up"
  26
           end
  27
  28
         end
  29
         describe '#takeoff' do
  30
           it "lets a plane take off from the airport" do
  31
  32
             subject.land(plane)
             expect(subject.takeoff(plane)).to eq plane
  33
  34
           end
  35
           it "orders the correct plane to take off" do
  36
  37
             another_plane = double(:another_plane, takeoff: nil, land: nil)
  38
             subject.land(plane)
             subject.land(another_plane)
  39
  40
             subject.takeoff(plane)
             expect(subject.planes).to include another_plane
  41
  42
           end
  43
           it "cannot order an absent plane to take off" do
  44
             expect { subject.takeoff(plane) }.to raise_error "That plane is not at this airport"
  45
  46
           end
  47
           it "stops planes taking off in stormy conditions" do
  48
  49
             subject.land(plane)
             allow(weather).to receive(:stormy?) { true }
  50
  51
             expect{ subject.takeoff(plane) }.to raise_error "This plane cannot take off until the weather clears up"
  52
           end
  53
  54
         end
  55
  56
         it "should be able to expect a plane" do
  57
           expect(subject).to respond_to :expect_plane
  58
         end
  59
         it "should be able to send planes to the runway" do
  60
  61
           expect(subject).to respond_to :send_to_runway
  62
         end
  63
  64
         describe 'initialisation' do
  65
           it "defaults the capacity to 50 if other capacity not specified" do
  66
  67
             expect(subject.capacity).to eq Airport::DEFAULT_CAPACITY
  68
           end
  69
  70
           it "sets the capacity to 10" do
  71
             airport = Airport.new(capacity: 10)
  72
             expect(airport.capacity).to eq 10
  73
           end
  74
           it "has a variable capacity" do
  75
  76
             Airport::DEFAULT_CAPACITY.times { subject.land(plane) }
  77
           expect { subject.land(plane) }.to raise_error "This airport is full"
  78
           end
  79
           it "has a variable capacity" do
  80
             subject.capacity = 100
  81
             100.times { subject.land(plane) }
  82
           expect { subject.land(plane) }.to raise_error "This airport is full"
  83
  84
           end
  85
  86
  87
         end
  88
  89
  90
```

Tree: 09eaac1204 - airport_challenge / spec / plane_spec.rb

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```
55 lines (40 sloc) 1.47 KB
       require 'plane'
  1
  2
   3
       describe Plane do
  4
  5
         it "should be flying when first created" do
           expect(subject.status).to eq "In the air"
  6
  7
         end
  8
         describe '#land' do
  9
  10
           it "shouldnt be able to land if it is on the ground" do
  11
  12
             airport = double(:airport, plane_expected?: true)
  13
             subject.land(airport)
  14
             expect { subject.land(airport) }.to raise_error "Plane is already on the ground"
  15
           end
  16
  17
           it "should be able to land at a specific airport" do
             airport = double(:airport, plane_expected?: true)
  18
  19
             subject.land(airport)
  20
             expect(subject.status).to eq airport
  21
           end
  22
  23
           it "checks a plane has been expected before landing it" do
             airport = double(:airport, plane_expected?: true)
  24
  25
             expect(airport).to receive(:plane_expected?).with(subject)
  26
             subject.land(airport)
  27
           end
  28
  29
         end
  30
  31
         describe '#takeoff' do
  32
  33
           it "shouldnt be able to take off if already in the air" do
  34
             expect { subject.takeoff }.to raise error "Plane is already in the air"
  35
           end
  36
  37
           it "should be in the air after taking off" do
  38
             airport = double(:airport, plane_expected?: true, on_runway?: true)
  39
             subject.land(airport)
  40
             subject.takeoff
             expect(subject.status).to eq "In the air"
  41
  42
           end
  43
           it "should check the plane is on the runway before letting it take off" do
  44
             airport = double(:airport, on_runway?: true, plane_expected?: true)
  45
  46
             subject.land(airport)
             expect(airport).to receive(:on_runway?).with(subject)
  47
             subject.takeoff
  48
  49
           end
  50
  51
  52
         end
  53
  54
       end
```

makersacademy / airport_challenge

expect(subject.stormy?).to eq false

10 11

12

end

end

airport_challenge / spec / weather_spec.rb Tree: 09eaac1204 ▼ Find file Copy path Fetching contributors... Cannot retrieve contributors at this time 13 lines (11 sloc) 277 Bytes require 'weather' 2 describe Weather do it "returns true when 1" do 4 allow(subject).to receive(:rand) {1} 5 expect(subject.stormy?).to eq true 6 end it "returns false when 2" do 8 allow(subject).to receive(:rand) {2} 9