Tree: a438a68dcd - airport\_challenge / lib / airport.rb

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```
27 lines (20 sloc)
                     608 Bytes
       require_relative 'plane'
       require_relative 'transit'
   2
   3
       class Airport
   4
  5
   6
         DEFAULT_CAPACITY = 10
   7
  8
         def initialize(capacity = DEFAULT_CAPACITY)
           @planes_at_rest = []
   9
  10
           @capacity = capacity
  11
         end
  12
  13
         attr_accessor :planes_at_rest, :capacity
  14
         def land(plane, transit)
  15
           raise "Too stormy for landing" if transit.stormy?
  16
           raise "The airport is currently full" if @capacity == planes_at_rest.count
  17
           @planes_at_rest << plane</pre>
  18
  19
         end
  20
         def take_off(plane, transit)
  21
           raise "Too stormy for take off" if transit.stormy?
  22
  23
           @planes_at_rest.delete(plane)
           transit.planes_in_transit.push(plane)
  24
  25
         end
  26
       end
```

end

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7 lines (6 sloc) | 71 Bytes

1 class Plane
2 def initialize
3 @plane
4 end
5 attr\_reader :plane

airport\_challenge / lib / transit.rb Tree: a438a68dcd ▼

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```
16 lines (10 sloc) | 189 Bytes
       require_relative 'airport'
   2
   3
       class Transit
   4
   5
         attr_accessor :planes_in_transit
   6
         def initialize
   7
           @planes_in_transit = []
   8
   9
         end
  10
         def stormy?
  11
  12
           rand(10) >= 9 ? true : false
  13
         end
 14
 15
       end
```

Tree: a438a68dcd - airport\_challenge / spec / airport\_spec.rb

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```
83 lines (73 sloc) | 2.92 KB
       require 'airport'
  1
  2
   3
       describe Airport do
  4
  5
         context 'the airport' do
  6
           it 'should be an empty array to start with' do
   7
             airport = Airport.new
  8
             expect(airport.planes_at_rest).to eq []
  9
           end
  10
           it 'should have a defualt capactiy equal to DEFAULT_CAPACITY if no args called' do
  11
             airport = Airport.new
  12
             expect(airport.capacity).to eq Airport::DEFAULT_CAPACITY
  13
           end
  14
           it 'should have a set capacity equal to the argument when called' do
             airport = double(:airport, capacity: 5)
  15
  16
             expect(airport.capacity).to eq 5
  17
           end
  18
         end
  19
  20
         context 'landing' do
  21
           it 'should respond to land with one argument' do
  22
             airport = Airport.new
  23
             expect(airport).to respond_to(:land).with(2).argument
  24
           end
  25
           it 'should return an array with a plane in it once a plane has landed' do
  26
             airport = Airport.new
             plane = double(:plane)
  27
  28
             clear_transit = double(:transit, stormy?: false)
  29
             expect(airport.land(plane, clear_transit)).to eq [plane]
  30
           end
  31
           it 'should not be able to land if the weather is stormy' do
  32
             plane = double(:plane)
  33
             airport = Airport.new
  34
             stormy_transit = double(:transit, stormy?: true)
  35
             expect { airport.land(plane, stormy_transit) }.to raise_error('Too stormy for landing')
  36
           end
  37
           it 'should not be able to take place if the airport is full' do
  38
             airport = Airport.new(1)
  39
             plane = Plane.new
  40
             plane1 = Plane.new
             clear_transit = double(:transit, stormy?: false)
  41
  42
             airport.land(plane, clear_transit)
  43
             expect { airport.land(plane1, clear_transit) }.to raise_error('The airport is currently full')
  44
             # Using doubles, didn't quite work
  45
  46
  47
             # plane = double(:plane)
             # airport = double(:airport, planes_at_rest: [plane], capacity: 1)
  48
             # clear_transit = double(:transit, stormy?: false)
  49
             # plane1 = double(:plane)
  50
             # allow(airport).to receive(:land)
  51
  52
             # expect { airport.land(plane1, clear_transit) }.to raise_error('The airport is currently full')
  53
  54
           end
  55
         end
  56
  57
         context 'take off' do
  58
           it 'should respond to take off with two arguments' do
  59
             airport = Airport.new
  60
             expect(airport).to respond_to(:take_off).with(2).argument
  61
           end
  62
  63
           it 'the plane should not be at airport after the plane takes off' do
  64
             plane = Plane.new
  65
             airport = Airport.new(5)
             clear_transit = double(:trasnit, stormy?: false, planes_in_transit: [])
  66
  67
             clear_transit = Transit.new
             airport.land(plane, clear_transit)
  68
             airport.take_off(plane, clear_transit)
  69
  70
             expect(airport.planes_at_rest).to_not include(plane)
  71
           end
  72
  73
           it 'plane should not be able to take off if weather in transit is stromy' do
  74
             plane = Plane.new
  75
             airport = Airport.new
  76
             clear_transit = double(:transit, stormy?: false)
  77
             airport.land(plane, clear transit)
             stormy_transit = double(:transit, stormy?: true)
  78
  79
             expect { airport.take_off(plane, stormy_transit) }.to raise_error('Too stormy for take off')
  80
           end
  81
         end
  82
       end
```

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0 lines (0 sloc) | 0 Bytes

Tree: a438a68dcd ▼

airport\_challenge / spec / transit\_spec.rb

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```
28 lines (24 sloc) | 783 Bytes
       require 'transit'
  2
       require 'airport'
  3
  4
       describe Transit do
  5
         context 'should get a plane in transit if a plane has taken off' do
           it 'should return a plane' do
  6
  7
  8
             plane = double(:plane)
  9
             airport = Airport.new
             clear_transit = double(:trasnit, stormy?: false, planes_in_transit: [])
 10
             airport.land(plane, clear_transit)
  11
             airport.take_off(plane, clear_transit)
  12
             expect(clear_transit.planes_in_transit).to eq [plane]
  13
  14
  15
           end
  16
         end
  17
         context 'weather' do
           it 'should return not stormy' do
  18
             clear_transit = double(:transit, stormy?: false)
  19
  20
             expect(clear_transit.stormy?).to eq false
  21
           end
           it 'should return stormy' do
  22
  23
             stormy_transit = double(:transit, stormy?: true)
  24
             expect(stormy_transit.stormy?).to eq true
  25
           end
  26
         end
  27
       end
```

airport\_challenge / user\_stories.md Tree: a438a68dcd ▼

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39 lines (28 sloc) 1.49 KB

User stories

As an air traffic controller So I can get passengers to a destination I want to instruct a plane to land at an airport

As an air traffic controller So I can get passengers on the way to their destination I want to instruct a plane to take off from an airport and confirm that it is no longer in the airport

As an air traffic controller To ensure safety I want to prevent takeoff when weather is stormy

As an air traffic controller To ensure safety I want to prevent landing when weather is stormy

As an air traffic controller To ensure safety I want to prevent landing when the airport is full

As the system designer So that the software can be used for many different airports I would like a default airport capacity that can be **overridden** as appropriate

## **Object I Message**

As an ATC | I want to instruct a plane to land at an airport, so i can get passengers to a destination As an ATC | I want to instruct a plane to take off from an airport and confirm that it is no longer at the airport, so passengers get to destination

ATC --- instruct plane ---> land at airport ATC --- instruct plane ---> take off from airport --- no longer plane at airport ---> deliver passengers ATC --- instruct plane ---> not to take off if weather is stormy ATC --- instruct plane ---> not to land if weather is stormy ATC --- instruct plane ---> not land at airport --- if airport full