


Tree bcd881e16b ▾

airport\_challenge / lib / airport.rb

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53 lines (43 sloc) | 1.08 KB

1

require\_relative 'plane'

2

require\_relative 'weather'

3

4

class Airport

5

attr\_reader :planes

6

DEFAULT\_CAPACITY = 30

7

8

def initialize(capacity = DEFAULT\_CAPACITY, weather = Weather.new)

9

@planes = []

10

@capacity = capacity

11

@weather = weather

12

end

13

14

def try\_to\_land(plane)

15

raise "Currently unsafe to land plane" if stormy?

16

raise "Airport currently full" if full?

17

raise "This plane is already landed" if plane.flying == false

18

land(plane)

19

end

20

21

def land(plane)

22

plane.landing

23

planes << plane

24

end

25

26

def try\_to\_takeoff(plane)

27

raise "Currently unsafe for plane to take off" if stormy?

28

raise "Plane is already in the air" if plane.flying == true

29

message = "This plane is not currently in the airport and so cannot take off"

30

raise message unless plane\_in\_airport?(plane)

31

takeoff(plane)

32

end

33

34

def takeoff(plane)

35

plane.taking\_off

36

planes.delete(plane)

37

end

38

39

def stormy?

40

weather.stormy?

41

end

42

43

private

44

attr\_reader :weather

45

def full?

46

planes.size >= @capacity

47

end

48

49

def plane\_in\_airport?(plane)

50

planes.include?(plane)

51

end

52

end

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airport\_challenge / lib / plane.rb

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13 lines (9 sloc) | 123 Bytes

```
1  class Plane
2    attr_reader :flying
3
4    def taking_off
5      @flying = true
6    end
7
8    def landing
9      @flying = false
10   end
11
12 end
```

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airport\_challenge / lib / weather.rb

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11 lines (8 sloc) | 104 Bytes

```
1  class Weather
2
3    def initialize
4      @stormy = rand(100) > 92
5    end
6
7    def stormy?
8      @stormy
9    end
10 end
```

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77 lines (57 sloc) | 2.38 KB

```
1  require 'airport'
2
3  describe Airport do
4    let(:plane) { double(:my_plane, landing: true, taking_off: true, flying: true) }
5    let(:weather) { double(:my_weather, stormy?: false) }
6    subject(:airport) { described_class.new(30, weather) }
7
8    it "should have a variable capacity" do
9      airport = Airport.new 50, weather
10     50.times { airport.land(plane) }
11     expect { airport.try_to_land(plane) }.to raise_error "Airport currently full"
12   end
13
14   it "should get weather information" do
15     expect(airport.stormy? == true || airport.stormy? == false).to be true
16   end
17
18   describe "#land" do
19
20     it "should land a plane" do
21       airport.land(plane)
22       expect(airport.planes.include?(plane)).to be true
23     end
24
25   end
26
27   describe "#try_to_land" do
28
29     it "should not land a plane if the weather is stormy" do
30       allow(weather).to receive(:stormy?) { true }
31       expect { airport.try_to_land(plane) }.to raise_error "Currently unsafe to land plane"
32     end
33
34     it "should not land a plane is the airport is full" do
35       30.times { airport.try_to_land(plane) }
36       expect { airport.try_to_land(plane) }.to raise_error "Airport currently full"
37     end
38
39     it "should not attempt to land a plane which is already landed" do
40       allow(plane).to receive(:flying) { false }
41       expect { airport.try_to_land(plane) }.to raise_error "This plane is already landed"
42     end
43
44   end
45
46   describe "#takeoff" do
47
48     it "should make a plane take off" do
49       airport.land(plane)
50       allow(plane).to receive(:flying) { false }
51       airport.try_to_takeoff(plane)
52       expect(airport.planes.include?(plane)).to be false
53     end
54
55   end
56
57   describe "#try_to_takeoff" do
58
59     it "should not let a plane take off if the weather is stormy" do
60       airport.land(plane)
61       allow(plane).to receive(:flying) { false }
62       allow(weather).to receive(:stormy?) { true }
63       expect { airport.try_to_takeoff(plane) }.to raise_error "Currently unsafe for plane to take off"
64     end
65
66     it "should not attempt to takeoff a plane which is already flying" do
67       expect { airport.try_to_takeoff(plane) }.to raise_error "Plane is already in the air"
68     end
69
70     it "should not let a plane which isn't in the airport take off from that airport" do
71       allow(plane).to receive(:flying) { false }
72       expect { airport.try_to_takeoff(plane) }.to raise_error "This plane is not currently in the airport and so cannot take of
73     end
74
75   end
76 end
```

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airport\_challenge / spec / plane\_spec.rb

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19 lines (14 sloc) | 438 Bytes

```
1  require 'plane'
2
3  describe Plane do
4    let(:airport) { double(:my_airport) }
5
6    it "should know when it is flying" do
7      allow(airport).to receive(:takeoff) { |plane| plane.taking_off }
8      airport.takeoff(subject)
9      expect(subject.flying).to eq true
10   end
11
12   it "should know when it is landed" do
13     allow(airport).to receive(:land) { |plane| plane.landing }
14     airport.land(subject)
15     expect(subject.flying).to eq false
16   end
17
18 end
```

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airport\_challenge / spec / weather\_spec.rb

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11 lines (7 sloc) | 181 Bytes

```
1  require 'weather'
2
3  describe Weather do
4    subject(:weather) { described_class.new }
5
6    it "should give weather information" do
7      expect(weather).to respond_to(:stormy?)
8    end
9
10 end
```