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CS 342

Project 3 Outputs:

Simulation Complete!

Probability of new plane in takeoff queue: 1.0

Probability of new plane in landing queue: 0.5

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 600 mins

Results:

Total Landings: 132

Total Takeoffs: 15

Total crashes: 170

Average time in takeoff queue: 324.47 mins

Average time in landing queue: 2.39 mins

Simulation Complete!

Probability of new plane in takeoff queue: 1.0

Probability of new plane in landing queue: 0.1

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 600 mins

Results:

Total Landings: 30

Total Takeoffs: 96

Total crashes: 29

Average time in takeoff queue: 253.54 mins

Average time in landing queue: 1.90 mins

Simulation Complete!

Probability of new plane in takeoff queue: 0.5

Probability of new plane in landing queue: 0.1

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 600 mins

Results:

Total Landings: 33

Total Takeoffs: 94

Total crashes: 21

Average time in takeoff queue: 195.60 mins

Average time in landing queue: 2.06 mins

Simulation Complete!

Probability of new plane in takeoff queue: 0.8

Probability of new plane in landing queue: 0.3

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 600 mins

Results:

Total Landings: 94

Total Takeoffs: 45

Total crashes: 83

Average time in takeoff queue: 268.67 mins

Average time in landing queue: 2.19 mins

Simulation Complete!

Probability of new plane in takeoff queue: 0.3

Probability of new plane in landing queue: 0.7

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 600 mins

Results:

Total Landings: 143

Total Takeoffs: 6

Total crashes: 273

Average time in takeoff queue: 262.17 mins

Average time in landing queue: 2.68 mins

Simulation Complete!

Probability of new plane in takeoff queue: 0.5

Probability of new plane in landing queue: 0.5

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 3 mins

Length of Simulation: 10000 mins

Results:

Total Landings: 2145

Total Takeoffs: 284

Total crashes: 2873

Average time in takeoff queue: 4636.69 mins

Average time in landing queue: 2.40 mins

Simulation Complete!

Probability of new plane in takeoff queue: 0.5

Probability of new plane in landing queue: 0.5

Time to take off: 4 mins

Time to land: 3 mins

Maximum time in air before crash: 5 mins

Length of Simulation: 10000 mins

Results:

Total Landings: 2099

Total Takeoffs: 321

Total crashes: 2868

Average time in takeoff queue: 4875.25 mins

Average time in landing queue: 2.41 mins