Solving Air Cargo Problem 1 using breadth\_first\_search...

Expansions Goal Tests New Nodes

43 56 180

Plan length: 6 Time elapsed in seconds: 0.033594774288014495

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Fly(P2, JFK, SFO)

Unload(C2, P2, SFO)

Fly(P1, SFO, JFK)

Unload(C1, P1, JFK)

Solving Air Cargo Problem 1 using breadth\_first\_tree\_search...

Expansions Goal Tests New Nodes

1458 1459 5960

Plan length: 6 Time elapsed in seconds: 1.0822387712719004

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Fly(P2, JFK, SFO)

Unload(C2, P2, SFO)

Fly(P1, SFO, JFK)

Unload(C1, P1, JFK)

Solving Air Cargo Problem 1 using depth\_first\_graph\_search...

Expansions Goal Tests New Nodes

21 22 84

Plan length: 20 Time elapsed in seconds: 0.01603045853702924

Fly(P1, SFO, JFK)

Fly(P2, JFK, SFO)

Load(C2, P1, JFK)

Fly(P1, JFK, SFO)

Fly(P2, SFO, JFK)

Unload(C2, P1, SFO)

Fly(P1, SFO, JFK)

Fly(P2, JFK, SFO)

Load(C2, P2, SFO)

Fly(P1, JFK, SFO)

Load(C1, P2, SFO)

Fly(P2, SFO, JFK)

Fly(P1, SFO, JFK)

Unload(C2, P2, JFK)

Unload(C1, P2, JFK)

Fly(P2, JFK, SFO)

Load(C2, P1, JFK)

Fly(P1, JFK, SFO)

Fly(P2, SFO, JFK)

Unload(C2, P1, SFO)

Solving Air Cargo Problem 1 using depth\_limited\_search...

Expansions Goal Tests New Nodes

101 271 414

Plan length: 50 Time elapsed in seconds: 0.10315959605375076

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Unload(C1, P1, SFO)

Load(C1, P1, SFO)

Fly(P2, JFK, SFO)

Unload(C2, P2, SFO)

Fly(P1, SFO, JFK)

Unload(C1, P1, JFK)

Solving Air Cargo Problem 1 using uniform\_cost\_search...

Expansions Goal Tests New Nodes

55 57 224

Plan length: 6 Time elapsed in seconds: 0.04061045797109169

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Fly(P1, SFO, JFK)

Fly(P2, JFK, SFO)

Unload(C1, P1, JFK)

Unload(C2, P2, SFO)

Solving Air Cargo Problem 1 using recursive\_best\_first\_search with h\_1...

Expansions Goal Tests New Nodes

4229 4230 17023

Plan length: 6 Time elapsed in seconds: 3.0759327288898355

Load(C2, P2, JFK)

Load(C1, P1, SFO)

Fly(P2, JFK, SFO)

Unload(C2, P2, SFO)

Fly(P1, SFO, JFK)

Solving Air Cargo Problem 1 using greedy\_best\_first\_graph\_search with h\_1...

Expansions Goal Tests New Nodes

7 9 28

Plan length: 6 Time elapsed in seconds: 0.00666280497514591

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Fly(P1, SFO, JFK)

Fly(P2, JFK, SFO)

Unload(C1, P1, JFK)

Unload(C2, P2, SFO)

Solving Air Cargo Problem 1 using astar\_search with h\_1...

Expansions Goal Tests New Nodes

55 57 224

Plan length: 6 Time elapsed in seconds: 0.042004495319640976

Load(C1, P1, SFO)

Load(C2, P2, JFK)

Fly(P1, SFO, JFK)

Fly(P2, JFK, SFO)

Unload(C1, P1, JFK)

Unload(C2, P2, SFO)

Solving Air Cargo Problem 1 using astar\_search with h\_ignore\_preconditions...

Expansions Goal Tests New Nodes

41 43 170

Plan length: 6 Time elapsed in seconds: 0.03340446391565533

Load(C1, P1, SFO)

Fly(P1, SFO, JFK)

Unload(C1, P1, JFK)

Load(C2, P2, JFK)

Fly(P2, JFK, SFO)

Unload(C2, P2, SFO)

Solving Air Cargo Problem 1 using astar\_search with h\_pg\_levelsum...

Expansions Goal Tests New Nodes

11 13 50

Plan length: 6 Time elapsed in seconds: 1.0165503443064188

Load(C1, P1, SFO)

Fly(P1, SFO, JFK)

Load(C2, P2, JFK)

Fly(P2, JFK, SFO)

Unload(C1, P1, JFK)

Unload(C2, P2, SFO)