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Solving Air Cargo Problem 3 using breadth_first_search...
# Actions Expansions Goal Tests New Nodes
  88
        14663
                 18098
                            129625
Plan length: 12 Time elapsed in seconds: 5.534140376
Load(C1, P1, SFO)
Load(C2, P2, JFK)
Fly(P2, JFK, ORD)
Load(C4, P2, ORD)
Fly(P1, SFO, ATL)
Load(C3, P1, ATL)
Fly(P1, ATL, JFK)
Unload(C1, P1, JFK)
Unload(C3, P1, JFK)
Fly(P2, ORD, SFO)
Unload(C2, P2, SFO)
Unload(C4, P2, SFO)
Solving Air Cargo Problem 3 using uniform_cost_search...
# Actions Expansions Goal Tests New Nodes
                          161936
       18510
                18512
Plan length: 12 Time elapsed in seconds: 7.452889699
Load(C2, P2, JFK)
Fly(P2, JFK, ATL)
Load(C3, P2, ATL)
Fly(P2, ATL, ORD)
Load(C4, P2, ORD)
Fly(P2, ORD, SFO)
Load(C1, P2, SFO)
Unload(C4, P2, SFO)
Unload(C2, P2, SFO)
Fly(P2, SFO, JFK)
Unload(C3, P2, JFK)
Unload(C1, P2, JFK)
Solving Air Cargo Problem 3 using greedy_best_first_graph_search with h_unmet_goals...
# Actions Expansions Goal Tests New Nodes
         25
                 27
                         230
Plan length: 15 Time elapsed in seconds: 0.018223191000000583
Load(C1, P1, SFO)
Load(C2, P2, JFK)
Fly(P2, JFK, SFO)
Unload(C2, P2, SFO)
Fly(P2, SFO, ORD)
Load(C4, P2, ORD)
Fly(P2, ORD, SFO)
Unload(C4, P2, SFO)
Fly(P2, SFO, ATL)
Load(C3, P2, ATL)
Fly(P2, ATL, JFK)
Unload(C3, P2, JFK)
Fly(P2, JFK, SFO)
Fly(P1, SFO, JFK)
Unload(C1, P1, JFK)
Solving Air Cargo Problem 3 using greedy_best_first_graph_search with h_pg_levelsum...
# Actions Expansions Goal Tests New Nodes
         14
               16
                         126
Plan length: 14 Time elapsed in seconds: 13.544867927
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Load(C1, P1, SFO)

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Fly(P1, SFO, ORD)
Load(C2, P2, JFK)
Fly(P2, JFK, SFO)
Unload(C2, P2, SFO)
Fly(P2, SFO, ATL)
Load(C3, P2, ATL)
Fly(P2, ATL, JFK)
Unload(C3, P2, JFK)
Load(C4, P1, ORD)
Fly(P1, ORD, SFO)
Unload(C4, P1, SFO)
Fly(P1, SFO, JFK)
Unload(C1, P1, JFK)
Solving Air Cargo Problem 3 using astar_search with h_unmet_goals...
# Actions Expansions Goal Tests New Nodes
         7388
                  7390
                          65711
Plan length: 12 Time elapsed in seconds: 4.302451536999996
Load(C2, P2, JFK)
Fly(P2, JFK, ATL)
Load(C3, P2, ATL)
Fly(P2, ATL, ORD)
Load(C4, P2, ORD)
Fly(P2, ORD, SFO)
Unload(C4, P2, SFO)
Unload(C2, P2, SFO)
Load(C1, P2, SFO)
Fly(P2, SFO, JFK)
Unload(C3, P2, JFK)
Unload(C1, P2, JFK)
Solving Air Cargo Problem 3 using astar_search with h_pg_levelsum...
# Actions Expansions Goal Tests New Nodes
         369
                  371
                          3403
Plan length: 12 Time elapsed in seconds: 250.908590791
Load(C1, P1, SFO)
Fly(P1, SFO, ATL)
Load(C3, P1, ATL)
Fly(P1, ATL, JFK)
Load(C2, P2, JFK)
Fly(P2, JFK, ORD)
Load(C4, P2, ORD)
Fly(P2, ORD, SFO)
Unload(C4, P2, SFO)
Unload(C3, P1, JFK)
Unload(C2, P2, SFO)
Unload(C1, P1, JFK)
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