

## Report: Planning Problems

The Optional Sequences for the three planning problems are:

Problem1:

```
Load(C1, P1, SF0)
Load(C2, P2, JFK)
Fly(P2, JFK, SF0)
Unload(C2, P2, SF0)
Fly(P1, SF0, JFK)
Unload(C1, P1, JFK)
```

Problem2:

```
Load(C1,P1,SF0)
Load(C2,P2,JFK)
Load(C3,P3,ATL)
Fly(P1,SFO,JFK)
Fly(P2,JFK,SFO)
Fly(P3,ATL,SFO)
```

Problem3:

```
Load(C1, P1, SF0)
Fly(P1, SF0, JFK)
Load(C2, P1, JFK)
Unload(C1, P1, JFK)
Unload(C2, P1, SF0)
Fly(P1, SF0, ATL)
Load(C3, P1, ATL)
Unload(C3, P1, JFK)
Fly(P1, JFK, ORD)
Load(C4, P1, ORD)
Unload(C4, P1, SF0)
```

Observations from various experiments:

Problem 1:

Method	Expansions	Goal Tests	Nodes	PlanLength	Time Taken
Breadth First	43	56	180	6	0.079
BFTreeSrch	21	22	84	20	0.03