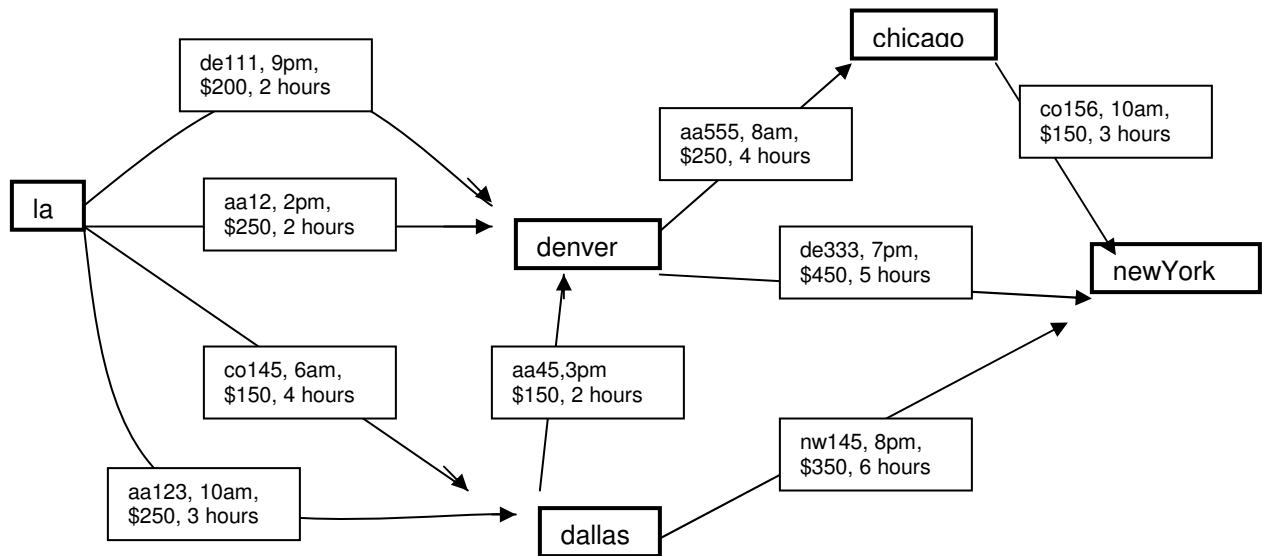


Programming Languages
Fall of 2001

Programming Assignment #1
Basic Travel Agent in Prolog
Due: Tuesday, November 20, 2001

Available flights:



Query:

```
connection(From, To, Departure, Price, Duration, ListOfFlights).
```

Testing data: (provided by me during testing - do not include in the submitted file!)

```
cancelled(FlightNr).
```

```
rescheduled(FlightNr, NewDeparture, NewDuration).
```

```
airport_closed(City, FromTime, ToTime).
```

Additional information:

- All times are in full hours using the 24 hour clock.
- No connection should last more than 24 hours.
- There must be at least one hour of waiting time between connecting flights.
- If the airport is closed during some hours than no flight can depart or land during those hours. All such flights are therefore effectively cancelled.
- Do not use negation in your premises. Use "!, fail" if necessary.
- Make sure to preserve the exact names and lists of arguments in the query and test data predicates.
- Make sure to preserve the exact names of the airports and flight numbers.

Examples of test data:

```
cancelled(de66).
```

```
rescheduled(aa125, 12, 7).  
rescheduled(aa34, 17, 2).
```

```
airport_closed(newYork, 8, 12).
```

Sample program run (not using the above data):

```
?- connection(la,newYork, Departure, Price, Duration, FlightNrs).
```

```
Departure = 12  
Price = 510  
Duration = 9  
FlightNrs = [aa125|co24|de234] ;
```

```
Departure = 9  
Price = 410  
Duration = 14  
FlightNrs = [co244|co24|aa23] ;
```

```
No more connections available.
```

Good Luck!