Given the following knowledge base:

```
g(a,b).

g(b,a).

g(b,c).

h(x,z) := g(x,y), g(y,z).
```

- 1. List every fact and rule as predicates in predicate calculus form.
- 2. Show the resolution of the following query: h(X,Y)?.
- 3. Show the proof search tree of the query in item 2.